



LIZARD

# INDUSTRIAL LCD MONITOR “E” SERIES

INSTRUCTION MANUAL - MANUEL D'UTILISATION  
MANUALE D'ISTRUZIONE

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## 1 GENERAL DESCRIPTION

### 1.1 INTRODUCTION

The TFT monitors are professional displays designed to operate with analog signals (VGA), digital graphic signals (DVI-D). The tight dimensions of the metal cases allow an easy installation of the devices, especially as a replacement of CRT monitors.

#### Main features:

- Manual regulation of the horizontal amplitudes and movements of the image;
- All the monitors can accept separated syncs, composite syncs and sync on green signals;
- Auto detect of the input signal;
- Auto adjustment function for perfect geometry settings at full screen;
- Energy saving function switches off the monitor in case of missing input signal;
- Full range power supply 100–240Vac, built in the monitor cases. 12Vdc & 19–36Vdc supply are also available;
- OSD functions can be controlled by the control keys on the monitor;
- Infrared receiver (IR) available;
- Resistive, capacitive, SAW touch screens available.

### 1.2 NOTES

The instructions given in this manual are not a contractual obligation. The warranty conditions are determined by law. The warranty is normally provided concerning malfunction of the product and does not cover damages caused by misuse and tampering. All rights are reserved. Any reproduction or translation of this manual is prohibited without our permission.

### 1.3 WARNINGS

#### 1.3.1 SYMBOLS AND CONVENTIONS



This symbol alerts the user to the risk of damage to things or loss of data, if the observations are not respected.



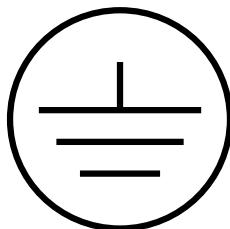
This symbol warns the user of a hazard which may cause serious injury or death, if the observations are not respected.

#### 1.3.2 SAFETY



Read these safety instructions carefully. Keep this user's manual for later reference and observing all the warnings on the product as follow.

- Electric shock hazard – Do not operate the machine with its back cover removed. There are dangerous high voltages inside.
- Never open the equipment. For safety reasons, only qualified service personnel should open the equipment.
- Disconnect this equipment from any outlet before cleaning.



- Before connecting the equipment to the power outlet, make sure the outlet is grounded according to the laws in force. The power outlet should also be located as close as possible to the equipment, so it can be quickly and easily unplugged.



- Put this equipment on a reliable surface during installation. Dropping it or letting it fall could cause damage to things or harm to people.
- Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
- If the equipment is not used for a long time, disconnect it from the power source to avoid damages.

Store the equipment according to the temperature and humidity ranges written in this manual. If any of the following situations arises, get the equipment checked by service personnel: The power cord or plug is damaged.

- Liquid has penetrated into the equipment;
- The equipment does not work well, or you cannot get it to work;
- The equipment has obvious signs of breakage or damage.

This manual contains all instructions for proper installation and maintenance the product you purchased. In the box packaging all the support documentation is provided.

#### 1.3.3 PRODUCT LABEL

All products are identified with a production label that shows all the product's identifying elements:

- Manufacturer's mark;
- Production Data;
- Product Model;
- Serial Number;
- Product Description.

#### 1.4 LIMITED RESPONSIBILITY DECLARATION

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Any updates to the product could be the cause of updates to this manual, therefore the manufacturer reserves the right to modify it, in whole or in part, without warning obligation. The manufacturer also will not accept any liability for damage caused to people or things close to it in the following cases:

- Misuse of the product and its accessories;
- Improper assembly and installation;
- Unauthorised, modification or interventions;
- Using not original spare parts;
- Failure to comply with the rules established by this manual.

Keep the manual with the utmost care in a dry place and protected, always available for future reference. The manual should be kept as long as the product is in operating life. In case of user's manual loss or damage, ask the manufacturer for a new one.

#### 1.4.1 MAINTENANCE AND WARRANTY

The product of this manual does not require any maintenance from the user besides the usual cleaning of the screen, which must be performed with a specific non-aggressive, alcohol-free cleaning agent, sprayed on a soft cloth. For product repair, the user shall contact the manufacturer.



Never open the equipment. For safety reasons, only qualified service personnel should open the equipment.



Do not use sharp or scratching objects or corrosive substances that can damage the active surface of the touch screen.

#### 1.5 PACKAGING

The PACKAGING is composed by a cardboard box with inside expanded material shells that guarantee safety during the shipment by carriers.

- TFT;
- Documentation (This manual);
- Connection cables.

#### 1.6 TECHNICAL SPECIFICATION

**Power supply input:**

100 ~ 240 Vac 50/60Hz.

**Power consumption:**

25W ~ 40W (Depending on the display dimension).

**Frequency range:**

- Horizontal Frequency: 31.5 – 80 kHz Multisync;
- Vertical frequency: 55 – 75 Hz.

**VGA Standard input signals:**

RGB analogue, 0.7 ~ 1Vpp level ON 75 ohm impedance HD15F (See section “INPUT SOURCE”)

**Supported resolutions:**

- VGA/SVGA/XGA/SXGA/UXGA 75hz;
- Plug & Play;
- Separated / composite sync;
- 0.3 ~ 5Vpp +/- level.

**Other input signals (Optional):**

- VGA Plug & Play.
- DVI -D Plug & Play.

**More input signals (With additional input boards)\*:**

**RGB TTL:**

- Signal level: < 0.4 > 2.5Vpp (1Kohm)
- Sync signals: TTL separated/composite
- Sync level: 0.3 ~ 5Vpp +/-

### 1.6.1 OPERATING CONDITIONS

#### **Operating conditions:**

- Temperature: 0°C +50°C
- Humidity: 10% - 95%
- Altitude: 0 - 3000mt

#### **Storage conditions:**

- Temperature: -10°C +55°C
- Humidity: 5% - 95%
- Altitude: 0 - 3000mt

#### **Shipment conditions:**

- Temperature: -35°C +60°C
- Humidity: 5% - 95%
- Altitude: 0 - 12000mt

### 1.7 SUPPORTED INPUT SIGNALS

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Mode	Resolution	Refresh Rate	H-Frequency	Pixel freq.	Remarks
VGA	640 X 350	70 Hz	31.47 KHz	25.175 MHz	VESA STD
VGA	720 X 400	59.940 Hz	31.469KHz	25.175 MHz	IBM VGA 3H
VGA	640 X 480	60 Hz	31.5 KHz	25.175 MHz	Industry STD
VGA	640 X 480	72 Hz	37.9 KHz	31.5 MHz	VESA STD
VGA	640 X 480	75 Hz	37.5 KHz	31.5 MHz	VESA STD
SVGA	800 X 600	60 Hz	37.9 KHz	40 MHz	VESA Guid.
SVGA	800 X 600	72 Hz	48.1 KHz	50 MHz	VESA STD
SVGA	800 X 600	75 Hz	46.9 KHz	49.5 MHz	VESA STD
XGA	1024 X 768	60 Hz	48.4 KHz	65 MHz	VESA Guid.
XGA	1024 X 768	70 Hz	56.5 KHz	75 MHz	VESA STD
XGA	1024 X 768	75 Hz	60 KHz	78.75 MHz	VESA STD
SXGA	1280 X 1024	60 Hz	64 KHz	108 MHz	VESA STD
SXGA	1280 X 1024	75 Hz	80 KHz	135 MHz	VESA STD
WXGA	1280 X 768	60-75 Hz	47.7-65 KHz	80.14 MHz	NOT STD
WXGA	1366 X 768	60-75 Hz	47.7-65 KHz	80 MHz	NOT STD
WSXGA	1440 X 900	60-75 Hz	65 KHz	150 MHz	NOT STD
WSXGA	1680 X 1050	60 Hz	70 KHz	150 MHz	NOT STD
UXGA	1600 x 1200	60 Hz	75 KHz	162 MHz	NOT STD
* FULL HD	1920 x 1080	60 Hz	69 KHz	138 MHz	NOT STD
* WUXGA	1920 x 1200	60 Hz	69 Hz	154 MHz	NOT STD

**Table 1**

**\* NOTE:**

Available for the second version only

## 1.8 NAVIGATION KEY

Type (A)



Type (B)



### **Use of external OSD keyboard:**

- “Menu/ enter”= Menu & Enter Key;
- “Down” = Down Key / Auto config;
- “-”= Decrease Key / Left Key;
- “+”= Increase Key / Right Key;
- “SRC / Exit”= Source Select / Exit;
- “Power”= ON / ST-by Monitor.

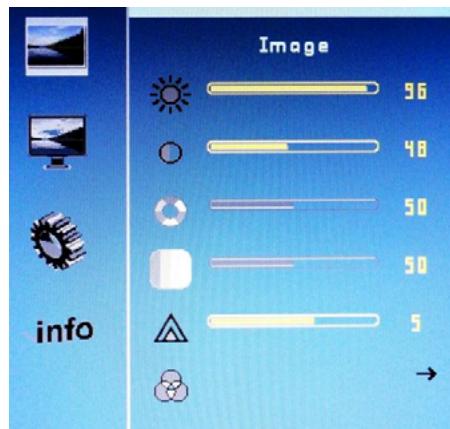
### **Osd menu function**

Press “MENU” button on navigation key, set rear the monitor to display OSD Menu on screen.

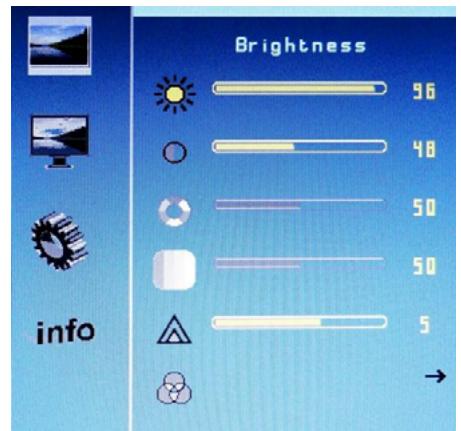
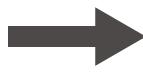
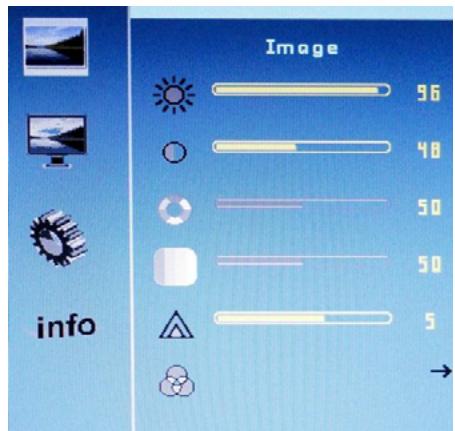
## 1.9 CHIPSET STDP 6038 OSD MENU SETTINGS

### 1.9.1 MENU IMAGE

- Brightness: brightness adjust;
- Contrast: contrast adjust;
- Sharpness: sharpness adjust;
- Color: go to color menu;
- “SRC / Exit” of external OSD keyboard: exit menu.



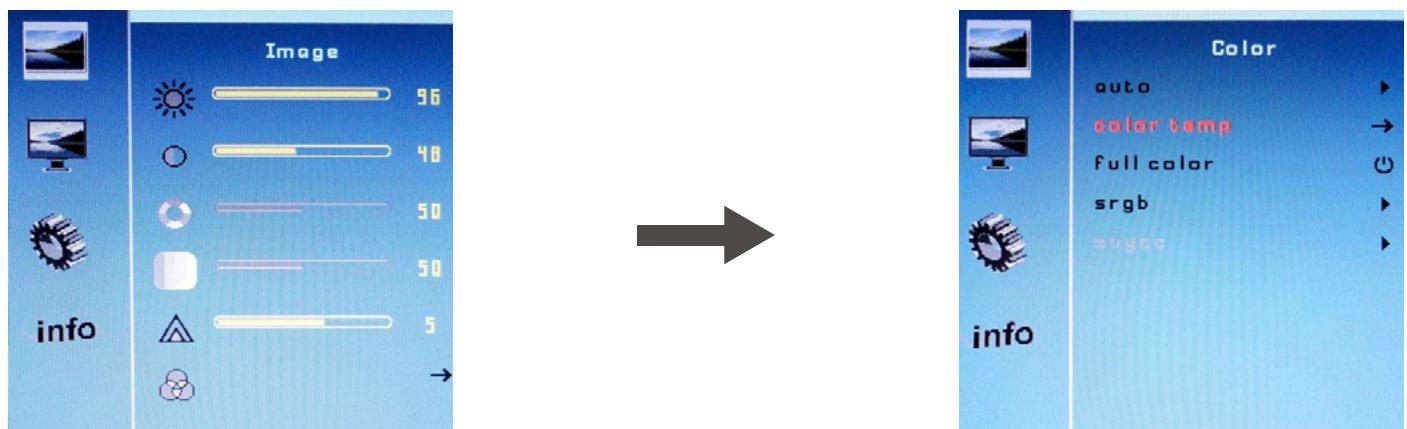
### Example



### 1.9.2 MENU “COLOR”

- Auto (RGB only): automatically set the color to a standard;
- Color Temp: go to Color Temp menu;
- Full Color: lets you adjust the default FULL COLOR;
- sRGB: lets you adjust the color space sRGB;
- “SRC / Exit” of external OSD keyboard: go back to previous menu.

#### Example



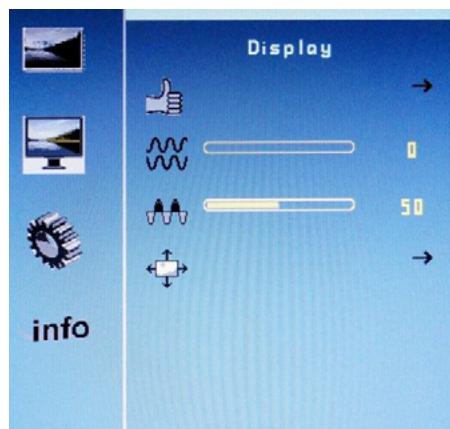
### 1.9.3 MENU “COLOR TEMP”

- Set the color temperature;
- User: primary colors intensity adjust;
- “SRC / Exit” of external OSD keyboard: go back to previous menu.



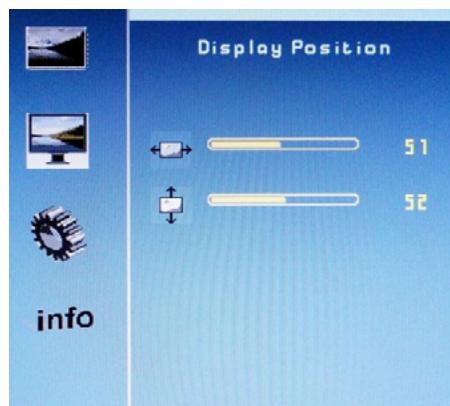
#### 1.9.4 MENU DISPLAY

- AUTO: image adjust;
- Phase: adjust the Phase of the image;
- Frequency: adjust the signal frequency for improve image quality;
- Display Position: go to the Move Position menu;
- “SRC / Exit” of external OSD keyboard: go back to main menu.



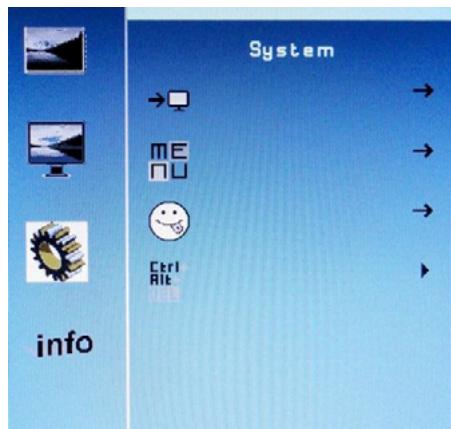
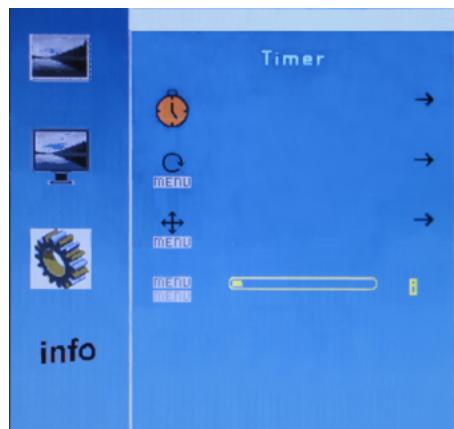
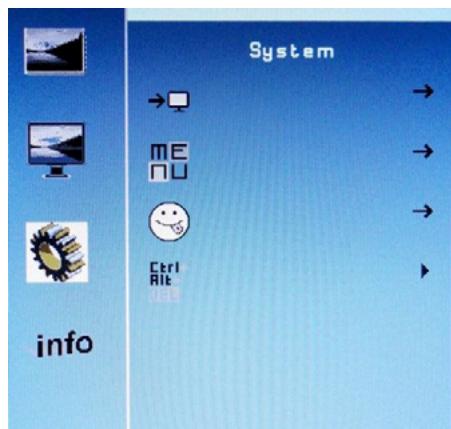
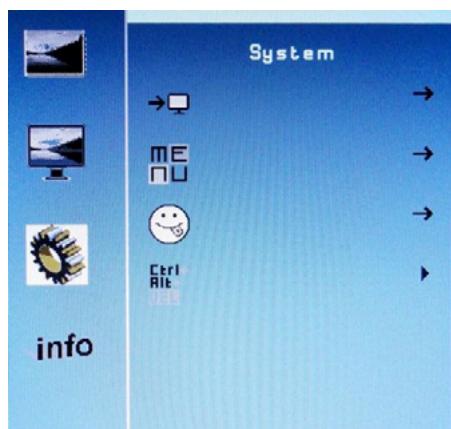
#### 1.9.5 MENU "DISPLAY POSITION"

- Move the image Horizontally and vertically.



#### 1.9.6 MENU “SYSTEM”

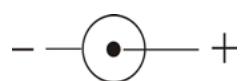
- Input: select VGA/DVI video signal input;
  - A RGB: set VGA input signal;
  - DVI: set DVI input signal.
- OSD settings:
  - Timer: set how long the OSD menu lasts on screen;
  - Rotation: OSD menu rotation;
  - Position: adjust vertical and horizontal position of OSD menu.
- Language: menu language settings.
- Reset color: reset the color parameters.
- “SRC / Exit” of external OSD keyboard: go back to previous men.



## 1.10 INPUT SOURCE



Power supply Input  
(12Vdc)



DVI-D Input

VGA Input



USB



PW Input  
100-240 VAC



Switch  
On/OFF



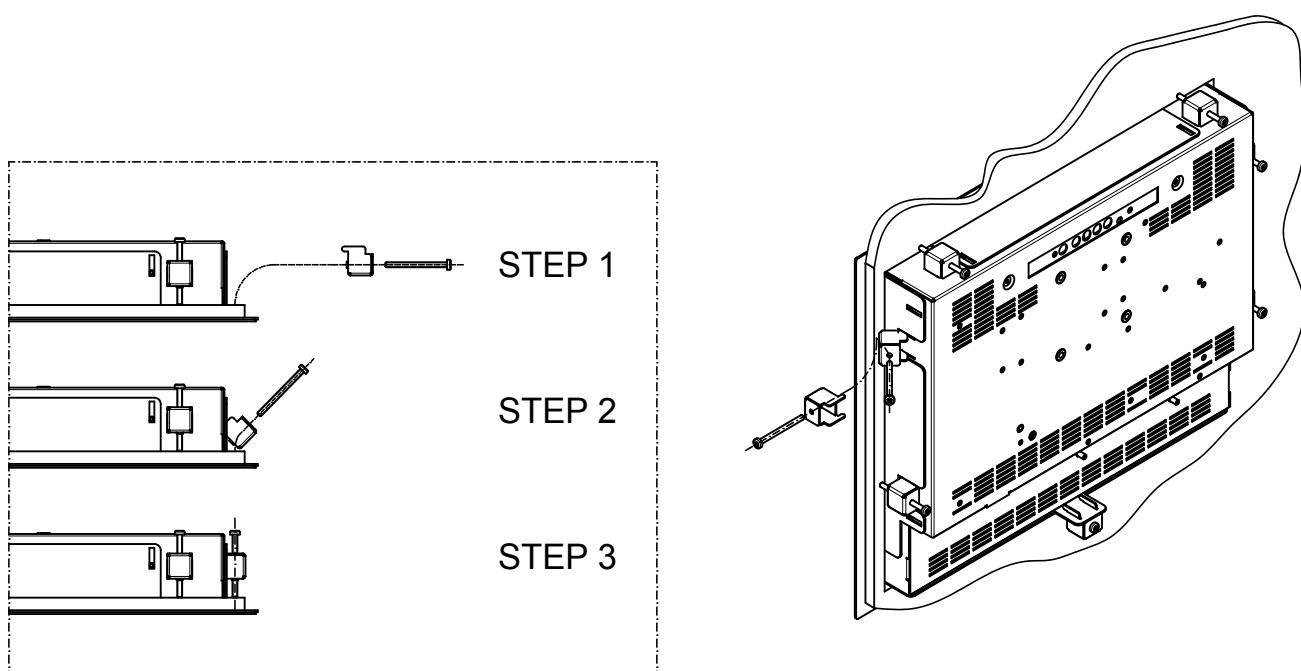
PW Input  
12VDC

**VGA CONNECTOR:**

Pin No.	Description	Pin No.	Type	Description
1	Analog Red	9	VGA 5Vdc	+ 5Vdc
2	Analog Green	10	SGND	Sync GND
3	Analog Blue	11	NC	No Connection
4	No Connection	12	SDA	DDC Serial data
5	GND	13	H SYNC	Horizontal sync
6	Red return	14	V SYNC	Vertical sync
7	Green return	15	SCL	DDC Data clock
8	Blue return			

**DVI-D CONNECTOR:**

Pin No.	Type	Pin No.	Type	Pin No.	Type
1	T.M.D.S. Data2-	9	T.M.D.S. Data1-	17	T.M.D.S. Data0-
2	T.M.D.S. Data2+	10	T.M.D.S. Data1+	18	T.M.D.S. Data0+
3	T.M.D.S. Data2/4shield	11	T.M.D.S. Data1/3 shield	19	T.M.D.S. Data0/5 shield
4	T.M.D.S. Data4-	12	T.M.D.S. Data3-	20	T.M.D.S. Data5-
5	T.M.D.S. Data4+	13	T.M.D.S. Data3+	21	T.M.D.S. Data5+
6	DDC Clock	14	+ 5V Power	22	T.M.D.S. Clock Shield
7	DDC Data	15	GND (5V, H-Sync, V-Sync)	23	T.M.D.S. Clock+
8	Analog Vertical Sync	16	Hot Plug Detect	24	T.M.D.S. Clock-

**PANEL MOUNT MONITOR WITH PUSHING SUPPORTS MOUNTING EXAMPLE**

## 2 OUT OF ORDER AND DISPOSAL

At the end of the product lifetime, it is necessary to separate the electrical and electronic parts from the metal components. These materials must be disposed in according to the current law about waste disposal. In particular, the RAEE makes provision for electrical and electronic components disposer by companies specialized in waste treatment.

## 3 ACCESSORIES

### 3.1 SUP144

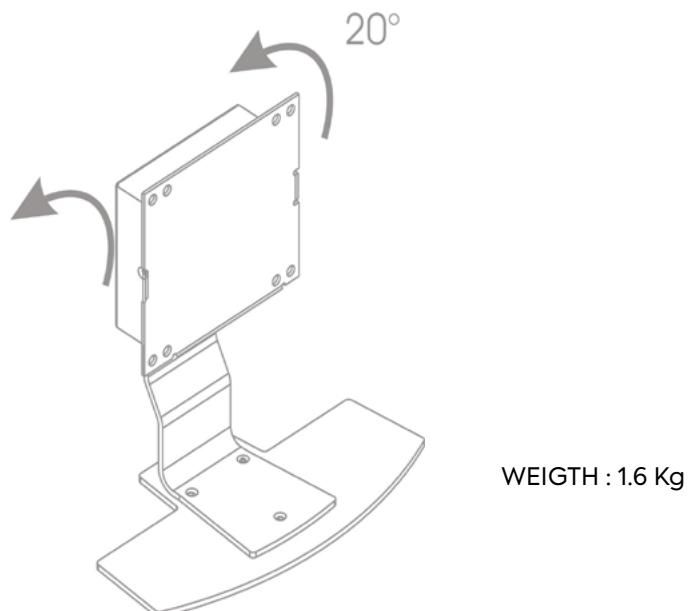
LCD wall mounting brackets with VESA mounting, PAN / TILT adjustable.



WEIGHT: 1.2 Kg

### 3.2 SUP143-K / SUP161-K (FOR 12" AND 15" VERSION)

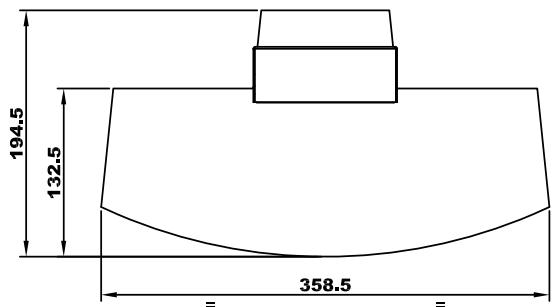
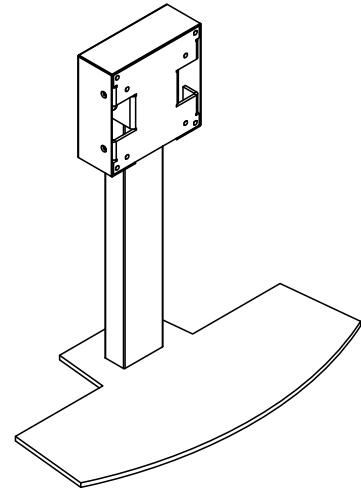
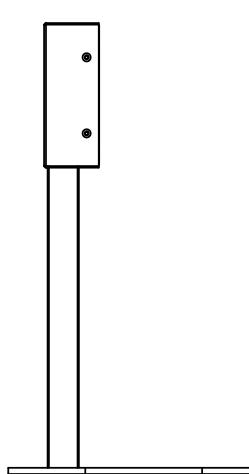
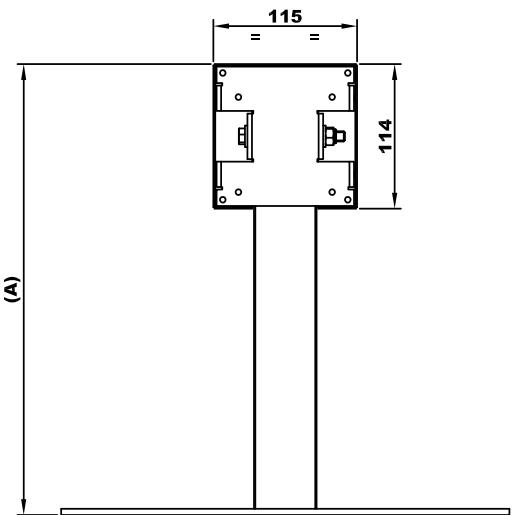
Desktop LCD arm with VESA mounting,adjustable inclination (max 20°).



WEIGHT : 1.6 Kg

### 3.3 SUP189-K / SUP231-K AND SUP189H-K / SUP231H-K

- SUP189-K / SUP231-K (2009 version 17" and 19")
  - SUP189H-K / SUP231H-K (2011 version 17" and 19")
- Desktop LCD arm with VESA 75-100  
mounting, adjustable inclination



(A)  
SUP189-K / SUP231-K  
SUP189H-K / SUP231H-K

296  
356  
**WEIGHT**  
3 Kg  
SUP189H-K / SUP231H-K  
3.3 Kg



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## 1.1 INTRODUCTION

Les écrans LCD TFT sont des moniteurs professionnels permettant une interface entre les signaux analogiques (VGA) , graphiques numériques ( DVI- D) , aux dimensions sensiblement réduites , en particulier en ce qui concerne leur profondeur, ce qui simplifie considérablement les phases d'installation ou de remplacement d'un vieux moniteur CRT.

### Caractéristiques principales:

- Réglage manuel du niveau d'amplitude horizontale , et des déplacements de l'image;
- Gestion des signaux graphiques avec synchronisation séparée (H-V), synchronisation composite (HVS) et synchronisation sur le vert (sync on green);
- Détection automatique du signal d'entrée;
- Fonction "Réglage automatique" qui permet d'adapter l'image vidéo à l'écran;
- Fonction "Economie d'énergie" qui éteint le moniteur en l'absence de signal;
- Alimentation 110-240 VAC (12 VDC et 19-36 VDC sur demande);
- Contrôle des différentes fonction à l'aide des boutons sur l'écran et sur la télécommande (câble);
- Conçu pour l'ajout de récepteur infrarouge (IR);
- Possibilité optionnelle d'ajouter d'un écran tactile.

## 1.2 NOTES

Les instructions contenues dans ce manuel ne sont pas contractuelles. Les conditions générales de garantie sont déterminées par la loi. La garantie est normalement fournie pour ce qui concerne un dysfonctionnement du produit et ne couvre pas les dégâts causés par une mauvaise utilisation ou sa manipulation. Tous les droits sont réservés. Toute reproduction ou traduction de ce manuel sont interdites sans notre accord.

## 1.3 AVVERTISEMENT

### 1.3.1 SYMBOLES ET CONVENTIONS



Ce symbole prévient l'utilisateur à des risques de dommages matériels, si l'observation n'est pas respectée.



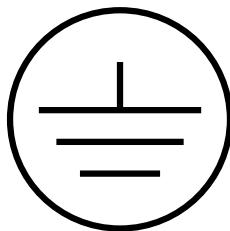
Ce symbole prévient l'utilisateur d'un risque de blessures pouvant entraîner le décès si les conditions ne sont pas respectées.

### 1.3.2 SECURITE



Assurez-vous de consulter les consignes de sécurité. Conservez ce manuel pour référence future et observez toutes les précautions et les avertissements sur le produit ci-dessous:

- Risque de choc électrique: ne pas utiliser le PC sans son capot arrière, de dangereuses tensions sont présentes à l'intérieur.
- Ne jamais ouvrir l'appareil. Pour des raisons de sécurité, seules les personnes qualifiées connaissant l'équipement sont autorisées à le faire.
- Débranchez l'appareil de toute prise de courant avant de le nettoyer.



- Avant de brancher l'appareil, assurez-vous que la prise soit connectée à la terre comme requis par la loi. La prise de courant doit être aussi près de l'appareil pour un débranchement facile.



- Placez cet appareil sur une surface stable lors de l'installation. Toute chute peut entraîner des dommages matériels et humains.
- Assurez-vous que la tension d'alimentation soit correcte avant de brancher l'appareil à la prise de courant.
- Si le produit n'est pas utilisé pendant une longue période, veuillez le débrancher pour éviter tout dommage électrique.

Assurez-vous du stockage de l'appareil à température et humidité appropriée comme recommandé dans ce manuel. Faire impérativement vérifier les points suivants par un technicien qualifié:

- Du liquide s'est répandu sur l'appareil.
- Le produit ne fonctionne pas bien, ou ne s'allume pas.
- Le produit est endommagé ou cassé.

Ce manuel, inclus dans l'emballage du produit, contient toutes les instructions pour l'installation et la maintenance.

#### 1.3.3 PRODUCT LABEL

Tous les produits sont identifiés par une étiquette de production avec les éléments d'identification ci-dessous:

- Marque / constructeur
- Date de fabrication
- Modèle du produit
- Description du produit
- Numéro de série

#### 1.4 DECLARATION DES LIMITES DE RESPONSABILITES

Les mises à jour du produit peuvent être la cause de modifications de ce manuel, le fabricant se réserve le droit de le modifier, tout ou bien en partie, sans préavis. Le fabricant décline toute responsabilité pour les dommages causés à des personnes ou à des tiers à proximité du produit dans les cas suivants:

- Une mauvaise utilisation du produit et de ses accessoires;
- Montage et installation incorrecte;
- Modification ou accès non autorisé;
- L'utilisation de pièces de rechange non originales;
- Le défaut de se conformer aux exigences énoncées dans le présent manuel.

Conservez ce manuel avec le plus grand soin dans un endroit sec et protégé, à disposition d'une consultation rapide. Conservez ce manuel pendant toute la durée de vie du produit. En cas de perte ou de détérioration demander un nouvel exemplaire directement au fabricant

#### 1.4.1 MAINTENANCE ET GARANTIE

Le produit décrit dans ce manuel ne nécessite aucun entretien particulier en dehors du nettoyage normal de l'écran, qui doit être effectué à l'aide d'un produit non corrosif et sans alcool, pulvérisé sur un chiffon doux. Pour toute réparation du produit, veuillez contacter le fabricant.



Ne jamais ouvrir l'appareil. Pour des raisons de sécurité, seul le personnel d'entretien qualifié doit ouvrir l'appareil.



Ne pas utiliser d'objets pointus ou gratter ou des substances corrosives qui peuvent endommager la surface active de l'écran tactile.

#### 1.5 EMBALLAGE

L'emballage est constitué d'une boîte en carton contenant de la mousse à l'intérieur pour assurer la fiabilité des supports de transport. Retirer le produit de la mousse d'emballage, vérifier son état ainsi que la présence de tous les éléments suivants:

- Moniteur LCD TFT
- Ce manuel
- Câbles des connexions

#### 1.6 CARACTERISTIQUES TECHNIQUES

##### **Entrée réseaux:**

100 ~ 240 Vac 50/60Hz.

##### **Consommation maximale:**

25W ~ 40W (Selon la dimension de l'écran).

##### **Gamme de fréquence d'exploitation:**

- Horizontal Frequency: 31.5 – 80 kHz Multisync;
- Vertical frequency: 55 – 75 Hz.

##### **VGA entrée signaux vidéo VGA STD:**

RGB analogue, 0.7 ~ 1VPP level ON 75 ohm impedance HD15F (See section "INPUT SOURCE")

##### **Résolutions:**

- VGA/SVGA/XGA/SXGA/UXGA 75hz;
- Plug & Play;
- Separated / composite syn;
- 0.3 ~ 5Vpp +/- level.

##### **Signaux vidéo d'entrée pris en charge (en option):**

- VGA Plug & Play.
- DVI -D Plug & Play.

##### **Signaux vidéo d'entrée (avec cartes en option)\*:**

##### **RGB TTL:**

- Signal level: < 0.4 > 2.5Vpp (1Kohm)
- Sync signals: TTL separated/composite
- Sync level: 0.3 ~ 5Vpp +/-

### 1.6.1 MODE D'EMPLOI

#### Mode d'emploi:

- Température: 0°C +50°C
- Humidité: 10% - 95%
- Altitude: 0 - 3000mt

#### Stockage:

- Température: -10°C +55°C
- Humidité: 5% - 95%
- Altitude: 0 - 3000mt

#### Transport:

- Température: -35°C +60°C
- Humidité: 5% - 95%
- Altitude: 0 - 12000mt

## 1.7 SIGNAUX VIDEO D'ENTRE PRIS EN CHARGE

Mode	Résolution	Refresh Rate	H-Fréquence	Pixel fréq.	Remarques
VGA	640 X 350	70 Hz	31.47 KHz	25.175 MHz	VESA STD
VGA	720 X 400	59.940 Hz	31.469 KHz	25.175 MHz	IBM VGA 3H
VGA	640 X 480	60 Hz	31.5 KHz	25.175 MHz	Industry STD
VGA	640 X 480	72 Hz	37.9 KHz	31.5 MHz	VESA STD
VGA	640 X 480	75 Hz	37.5 KHz	31.5 MHz	VESA STD
SVGA	800 X 600	60 Hz	37.9 KHz	40 MHz	VESA Guid.
SVGA	800 X 600	72 Hz	48.1 KHz	50 MHz	VESA STD
SVGA	800 X 600	75 Hz	46.9 KHz	49.5 MHz	VESA STD
XGA	1024 X 768	60 Hz	48.4 KHz	65 MHz	VESA Guid.
XGA	1024 X 768	70 Hz	56.5 KHz	75 MHz	VESA STD
XGA	1024 X 768	75 Hz	60 KHz	78.75 MHz	VESA STD
SXGA	1280 X 1024	60 Hz	64 KHz	108 MHz	VESA STD
SXGA	1280 X 1024	75 Hz	80 KHz	135 MHz	VESA STD
WXGA	1280 X 768	60-75 Hz	47.7-65 KHz	80.14 MHz	NOT STD
WXGA	1366 X 768	60-75 Hz	47.7-65 KHz	80 MHz	NOT STD
WSXGA	1440 X 900	60-75 Hz	65 KHz	150 MHz	NOT STD
WSXGA	1680 X 1050	60 Hz	70 KHz	150 MHz	NOT STD
UXGA	1600 x 1200	60 Hz	75 KHz	162 MHz	NOT STD
* FULL HD	1920 x 1080	60 Hz	69 KHz	138 MHz	NOT STD
* WUXGA	1920 x 1200	60 Hz	69 Hz	154 MHz	NOT STD

**Table 1**

#### \* NOTES:

Disponible seulement pour la deuxième version

## 1.8 FONCTION CLAVIER

Type (A)



Type (B)



### **Use of external OSD keyboard:**

- “Menu/ entrée” = ouverture menu principale / Confirmation menu;
- “Down” (Flèche vers le bas)= suit le menu choisi dans les différentes options;
- “-” = Choisissez le sous-menu à gauche / réduit le réglage;
- “+” = Choisissez le sous-menu à droite / augmente le réglage;
- “SRC / Sortie”= changement de source (RGB / DVI) / Sortie du menu OSD;
- “Power”= Allumer / éteindre le moniteur.

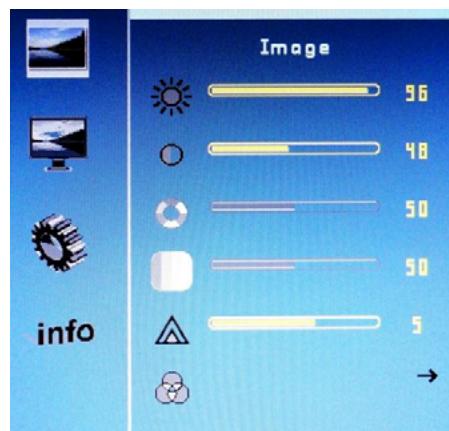
### **Réglages sur l'écran**

Pour afficher le menu, appuyez sur “MENU” sur le clavier en haut à l'arrière du moniteur.

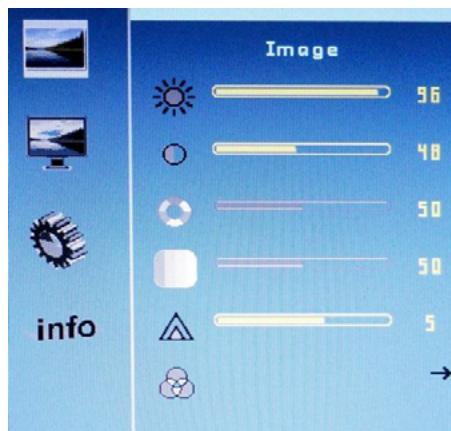
## 1.9 CONFIGURATION MENU CHIPSET GRAPHIQUE STDP 6038

### 1.9.1 MENU ECRAN

- Brightness: vous permet d'ajuster la luminosité à l'affichage;
- Contrast: vous permet d'ajuster le contraste à l'affichage;
- Sharpness: vous permet d'ajuster la netteté de l'image;
- Color: passage au sous-menu couleur;
- Touche “SCR/Exit” sur le clavier: sortie du menu.



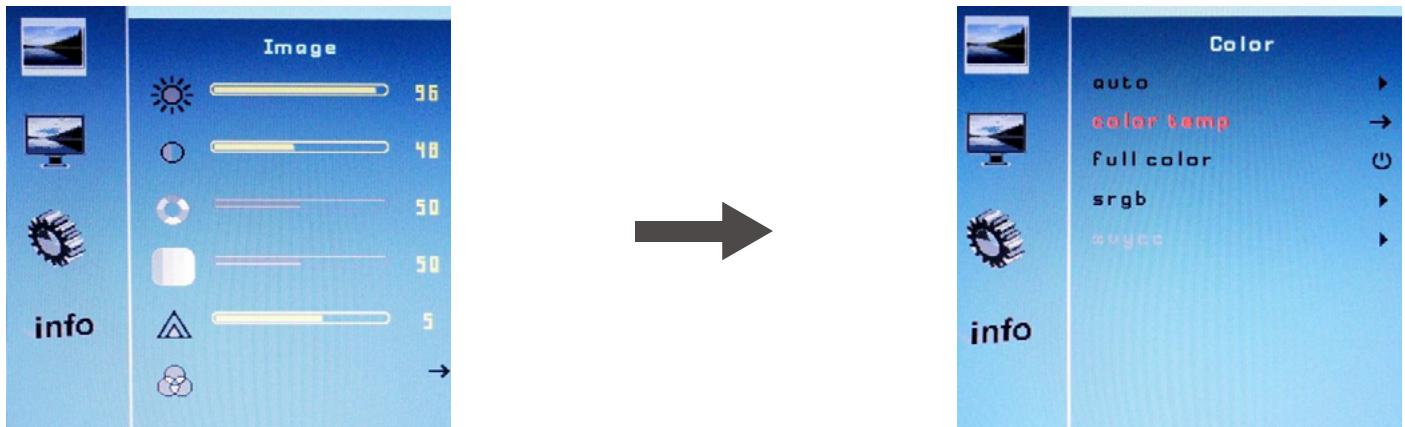
### Example



### 1.9.2 MENU “COULEUR”

- Auto (seulement RGB): réinitialise la température de couleur pour les paramètres standard;
- Color Temp: passage au sous-menu Color Temp;
- Full Color: vous permet d'ajuster la valeur par défaut FULL COLOR;
- sRGB: Vous permet d'ajuster l'espace de couleur sRGB;
- Touche “SCR/Exit” sur le clavier: vous permet de revenir au menu précédent.

#### Example



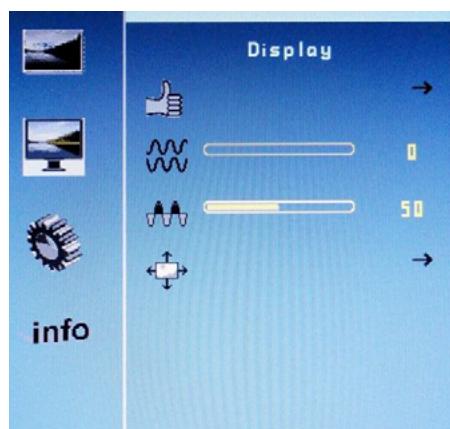
### 1.9.3 MENU “COULEUR TEMP.”

- Vous permet d'ajuster la température des couleurs;
- User: vous permet d'ajuster l'intensité des couleurs primaires;
- Touche “SCR/Exit” sur le clavier: vous permet de revenir au menu précédent.



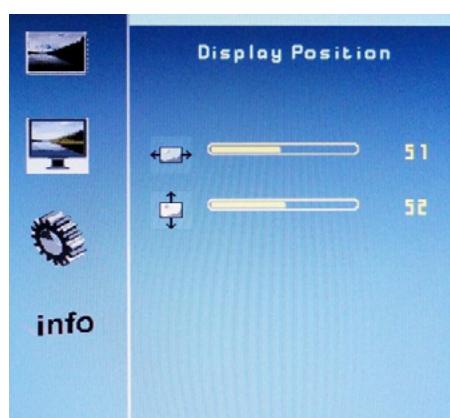
#### 1.9.4 MENU AFFICHAGE

- AUTO: vous permet d'adapter l'image à l'écran;
- Phase: vous permet de régler la phase de l'image ;
- Frequency: ajuste la fréquence du signal pour améliorer la qualité de l'image;
- Display Position: vous permet d'accéder au sous-menu “Move Position”;
- Touche “SCR/Exit” sur le clavier: vous permet de revenir au menu principale.



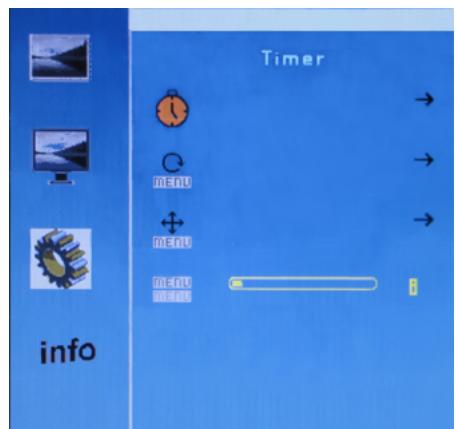
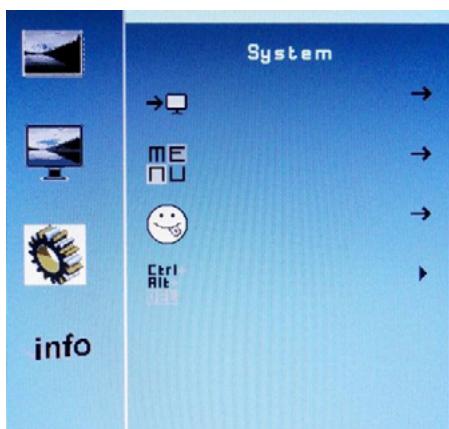
#### 1.9.5 MENU “POSITION D’ECRAN”

- Vous permet de régler la position verticale et horizontale.

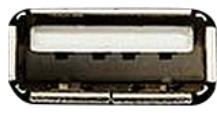
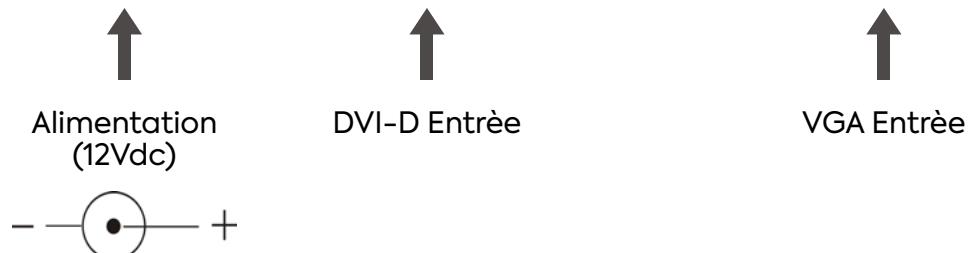


### 1.9.6 MENU “SYSTEME”

- Input: vous permet de choisir la source vidéo VGA ou DVI
  - VGA: Il définit l'entrée vidéo VGA
  - DVI: Il définit l'entrée vidéo DVI
- OSD réglages:
  - Timer: Règle le temps de disparition du menu OSD
  - Rotation: il fait pivoter le menu OSD
  - Position: Réglage la position verticale et horizontale du menu OSD
- Language: vous permet de changer la langue dans le menu
- Reset: Réinitialise les paramètres des couleurs
- Touche “SCR/Exit” sur le clavier: vous permet de revenir au menu précédent.



## 1.10 SOURCE ENTREE



USB



PW Input  
100-240 VAC



Switch  
On/OFF



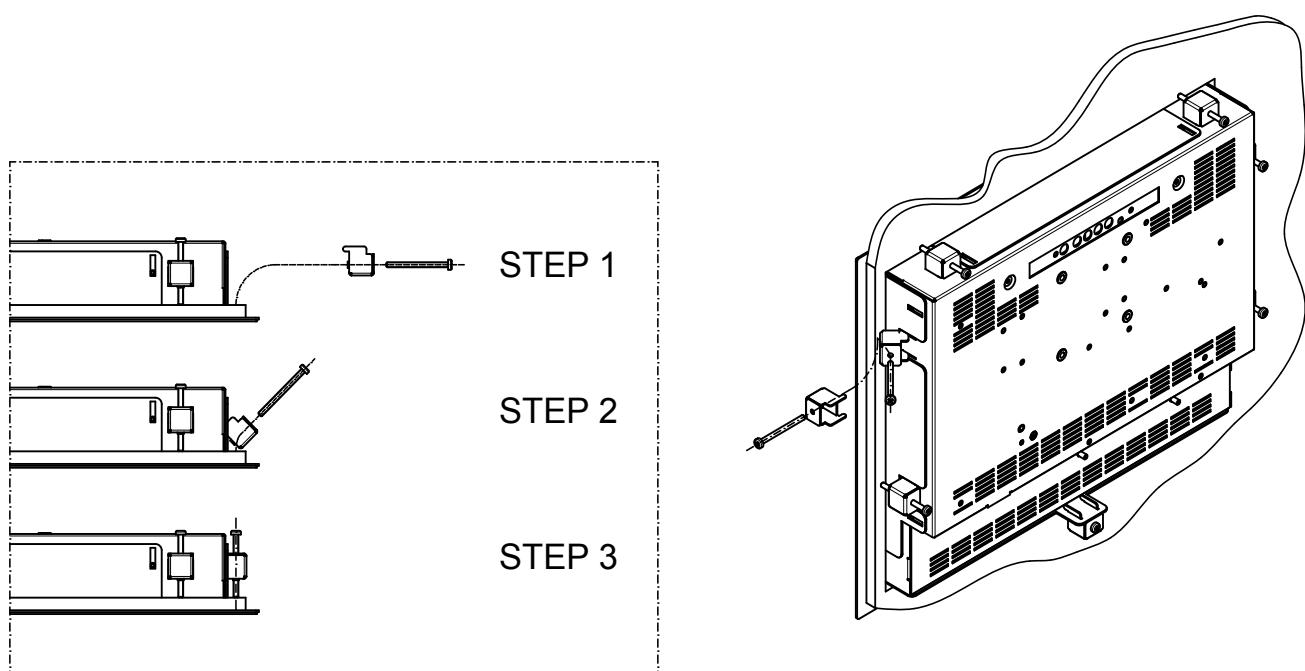
PW Input  
12VDC

**CONNECTEUR VGA:**

Pin No.	Description	Pin No.	Type	Description
1	Analog Red	9	VGA 5Vdc	+ 5Vdc
2	Analog Green	10	SGND	Sync GND
3	Analog Blue	11	NC	No Connection
4	No Connection	12	SDA	DDC Serial data
5	GND	13	H SYNC	Horizontal sync
6	Red return	14	V SYNC	Vertical sync
7	Green return	15	SCL	DDC Data clock
8	Blue return			

**CONNECTEUR DVI-D:**

Pin No.	Type	Pin No.	Type	Pin No.	Type
1	T.M.D.S. Data2-	9	T.M.D.S. Data1-	17	T.M.D.S. Data0-
2	T.M.D.S. Data2+	10	T.M.D.S. Data1+	18	T.M.D.S. Data0+
3	T.M.D.S. Data2/4shield	11	T.M.D.S. Data1/3 shield	19	T.M.D.S. Data0/5 shield
4	T.M.D.S. Data4-	12	T.M.D.S. Data3-	20	T.M.D.S. Data5-
5	T.M.D.S. Data4+	13	T.M.D.S. Data3+	21	T.M.D.S. Data5+
6	DDC Clock	14	+ 5V Power	22	T.M.D.S. Clock Shield
7	DDC Data	15	GND (5V, H-Sync, V-Sync)	23	T.M.D.S. Clock+
8	Analog Vertical Sync	16	Hot Plug Detect	24	T.M.D.S. Clock-

**EXAMPLE DE MONTAGE D'UN MONITEUR PANEL MOUNT AVEC SUPPORT BUTEE**

## 2 MISE HORS SERVICE ET ELIMINATION

Lors de l'élimination de ce produit, il est nécessaire de séparer les pièces électriques et électroniques des composants métalliques. Ces matériaux doivent être éliminés conformément à la réglementation en vigueur sur l'élimination des déchets. En particulier, la législation sur les RAEE prévoit l'élimination des composants électriques et électroniques par les entreprises qui se spécialisent dans le traitement de ces déchets.

## 3 ACCESSOIRES

### 3.1 SUP144

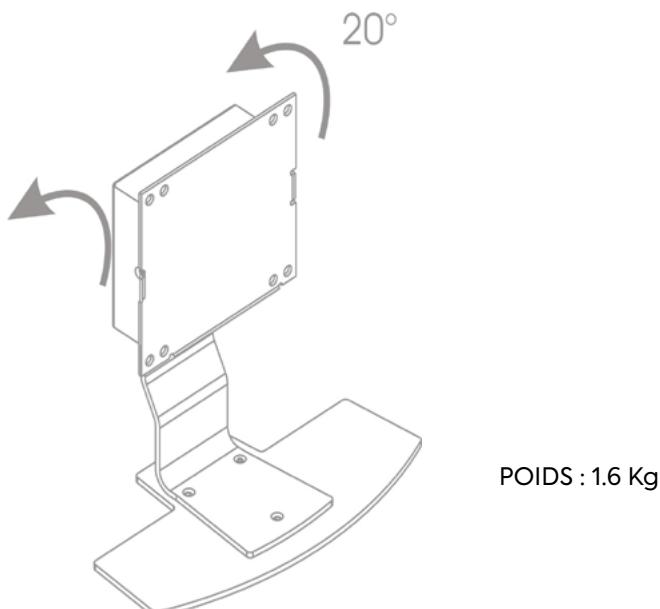
Support fixation mural "VESA" avec inclinaison verticale et horizontale réglable.



POIDS: 1.2 Kg

### 3.2 SUP143-K / SUP161-K (POUR VERSION 12" ET 15")

Pied de support pour écran LCD "vesa" avec inclinaison verticale réglable (max 20°).

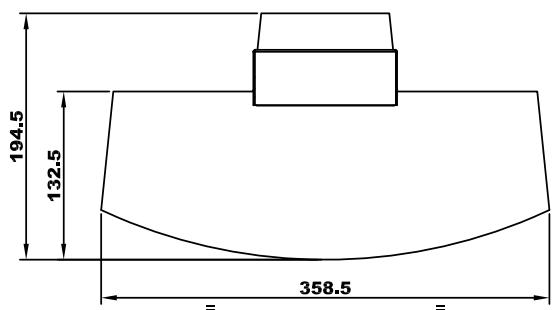
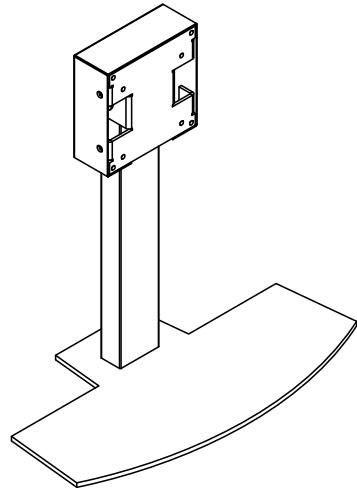
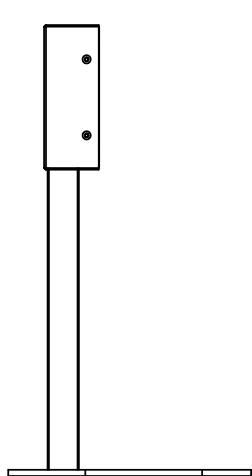
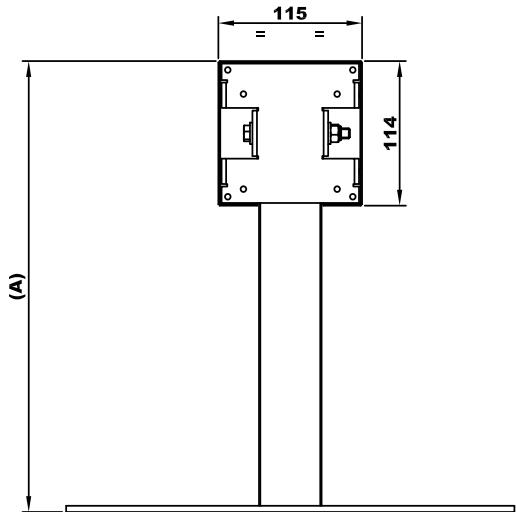


POIDS : 1.6 Kg

### 3.3 SUP189-K / SUP231-K AND SUP189H-K / SUP231H-K

- SUP189-K / SUP231-K (2009 version 17" et 19")
- SUP189H-K / SUP231H-K (2011 version 17" et 19")

Pied de support pour écran LCD "Vesa" avec 75-100 avec inclinaison verticale réglable



**(A)**  
SUP189-K / SUP231-K  
SUP189H-K / SUP231H-K

296  
356

**POIDS**  
SUP189-K / SUP231-K  
SUP189H-K / SUP231H-K

3 Kg  
3.3 Kg



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## 1.1 INTRODUZIONE

I monitor LCD TFT sono monitor professionali che consentono un'interfacciamento di segnali analogici (VGA), grafici digitali (DVI-D), oltre ad avere dimensioni molto ridotte, soprattutto per quanto riguarda la profondità che semplifica molto la fase di installazione o sostituzione di un vecchio monitor a CRT.

### Caratteristiche principali:

- Regolazione manuale dell'ampiezza orizzontale, e spostamenti dell'immagine;
- Gestione segnali grafici con sincronismi separati (H-V), sincronismi compositi (HVS) e sincronismi sul verde (sync on green);
- Riconoscimento automatico del segnale in ingresso;
- Funzione "auto adjustment" che permette di adattare allo schermo l'immagine video;
- Funzione "energy saving" che spegne il monitor in assenza di segnale;
- Alimentazione 100-240Vac (a richiesta 12Vdc e 19-36Vdc);
- Controllo delle funzioni tramite: pulsanti sul monitor, pulsanti su schedino remoto (cavo);
- Predisposizione per ricevitore infrarosso (IR);
- Predisposizione per Touch screen (Opzionale).

## 1.2 NOTE

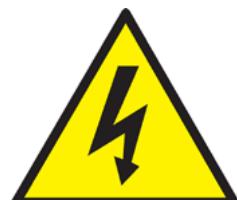
Le indicazioni riportate nel presente manuale non sono un obbligo contrattuale. Le condizioni generali di garanzia sono determinate dalle leggi vigenti. La garanzia normalmente fornita è relativa a malfunzionamento del prodotto e non copre danni causati da errato utilizzo e manomissioni. Tutti i diritti sono riservati. Ogni riproduzione o la traduzione di questo manuale è vietata senza la nostra autorizzazione

## 1.3 AVVERTENZE

### 1.3.1 SIMBOLI E CONVENZIONI

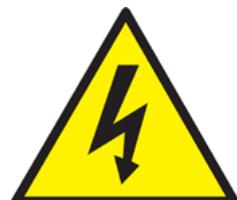


Questo simbolo avverte l'utente del rischio di danni a cose o la perdita di dati, se le prescrizioni non sono rispettate.



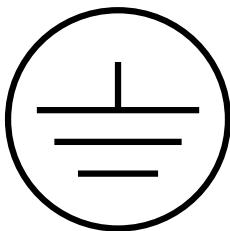
Questo simbolo avverte l'utente di un pericolo che può causare lesioni gravi o morte, se le Prescrizioni non sono rispettate.

### 1.3.2 SICUREZZA



Leggere attentamente le istruzioni di sicurezza. Conservare questo manuale per consultazioni future ed osservare tutte le precauzioni e le avvertenze sul prodotto di seguito indicate:

- Pericolo di scossa elettrica: non utilizzare il PC con il suo coperchio posteriore rimosso, ci sono tensioni pericolose al suo interno.
- Non aprire mai l'apparecchiatura. Per motivi di sicurezza, solo il personale qualificato che conosce l'apparecchiatura è autorizzato a farlo.
- Scollegare l'apparecchio da qualsiasi presa di corrente, prima di pulirlo.



- Prima di collegare l'alimentazione, assicurarsi che la presa di corrente al quale ci si conserverà abbia il cavo di messa a terra regolarmente connesso come imposto dalla normativa vigente. La presa di alimentazione inoltre deve essere il più vicino possibile all'apparecchiatura e deve essere facilmente scollegabile.



- Mettere l'apparecchiatura su una superficie stabile durante l'installazione. Farlo cadere o lasciarlo cadere potrebbe causare danni a persone e cose.
- Assicurarsi che la tensione di alimentazione sia corretta prima di collegare l'apparecchio alla presa di corrente.
- Se il prodotto non viene utilizzato per un lungo periodo di tempo, si prega di scollegarlo per evitare i danni.

Conservare in modo appropriato con temperatura e umidità prescritte in questo manuale nei seguenti casi, far controllare il prodotto da personale tecnico qualificato:

- Del liquido è penetrato all'interno del prodotto.
- Il prodotto non funziona bene, o non si accende.
- Il prodotto è danneggiato o chiaramente rotto.

Il presente manuale, inserito a corredo nella confezione del prodotto, contiene tutte le istruzioni per una corretta installazione e manutenzione.

#### 1.3.3 ETICHETTA DEL PRODOTTO

Tutti i prodotti sono identificati con un'etichetta di produzione che mostra elementi identificativi tutto del prodotto:

- Il marchio del costruttore
- Descrizione del prodotto
- Modello del prodotto
- Numero di serie

#### 1.4 DICHIARAZIONE DI LIMITAZIONE DI RESPONSABILITÀ

Eventuali aggiornamenti al prodotto, potrebbero essere la causa di aggiornamenti a questo manuale, il costruttore si riserva il diritto di modificare, tutto o in parte, senza alcun obbligo di preavviso. Il costruttore inoltre, non si assume alcuna responsabilità per danni causati a persone o cose vicino ad esso nei seguenti casi:

- L'uso improprio del prodotto e dei suoi accessori;
- Assemblaggio e installazione improprie;
- Modifiche o interventi non autorizzati;
- Utilizzo di parti di ricambio non originali;
- Il mancato rispetto delle prescrizioni stabilite dal presente manuale.

Conservare il manuale con la massima cura in un luogo asciutto e protetto, sempre a disposizione per future consultazioni. Il manuale dovrebbe essere mantenuto per tutta la vita del prodotto. In caso di smarrimento o deterioramento chiedere direttamente al costruttore uno nuovo.

#### 1.4.1 MANUTENZIONE E GARANZIA

Il prodotto oggetto del presente manuale non necessita di alcuna manutenzione da parte dell'utente, oltre la normale pulizia dello schermo, che è da effettuare utilizzando un prodotto specifico non aggressivo e privo di alcool, spruzzato su un panno morbido. Per la riparazione del prodotto è necessario contattare il produttore.



Non aprire mai l'apparecchiatura.  
Per motivi di sicurezza, solo personale  
di assistenza qualificato dovrebbe aprire l'apparecchio.



La normale pulizia dello schermo, che è da effettuare  
utilizzando un prodotto specifico non aggressivo  
e privo di alcool, spruzzato su un panno morbido.

#### 1.5 IMBALLAGGIO

L'imballaggio è costituito da una scatola di cartone che racchiude due gusci di protezione che garantiscono la protezione. Estrarre il prodotto dai gusci di protezione, controllare che ci siano i seguenti elementi:

- LCD TFT monitor
- Documentazione (questo manuale)
- Cavi di connessione

#### 1.6 CARATTERISTICHE TECNICHE

##### **Ingresso rete:**

100 ~ 240 Vac 50/60Hz.

##### **Potenza massima assorbita:**

25W ~ 40W (In base alla dimensione del Display).

##### **Gamma frequenze di funzionamento:**

- Horizontal Frequency: 31.5 – 80 kHz Multisync;
- Vertical frequency: 55 – 75 Hz.

##### **VGA ingresso segnale video VGA STD:**

RGB analogue, 0.7 ~ 1VPP level ON 75 ohm impedance HD15F (See section "INPUT SOURCE")

##### **Risoluzioni riportate:**

- VGA/SVGA/XGA/SXGA/UXGA 75hz;
- Plug & Play;
- Separated / composite syn;
- 0.3 ~ 5Vpp +/- level.

##### **Ingresso segnali video supportati (Opzionali):**

- VGA Plug & Play.
- DVI -D Plug & Play.

##### **Ingresso segnali video (con schede opzionali)\*:**

RGB TTL:

- Livello Segnale: < 0.4 > 2.5Vpp (1Kohm)
- Sincronismo: TTL separated/composite
- Livello Sincronismo: 0.3 ~ 5Vpp +/-

### 1.6.1 CONDIZIONI OPERATIVE DI UTILIZZO

Condizioni operative:

- Temperatura: 0°C +50°C
- Umidità: 10% - 95%
- Altitudine: 0 - 3000mt

**Condizioni di immagazzimento:**

- Temperatura: -10°C +55°C
- Umidità: 5% - 95%
- Altitudine: 0 - 3000mt

**Condizioni per il trasporto:**

- Temperatura: -35°C +60°C
- Umidità: 5% - 95%
- Altitudine: 0 - 12000mt

### 1.7 SEGNALI DI INGRESSO SUPPORTATI

Mode	Résolution	Refresh Rate	H-Fréquence	Pixel fréq.	Remarques
VGA	640 X 350	70 Hz	31.47 KHz	25.175 MHz	VESA STD
VGA	720 X 400	59.940 Hz	31.469 KHz	25.175 MHz	IBM VGA 3H
VGA	640 X 480	60 Hz	31.5 KHz	25.175 MHz	Industry STD
VGA	640 X 480	72 Hz	37.9 KHz	31.5 MHz	VESA STD
VGA	640 X 480	75 Hz	37.5 KHz	31.5 MHz	VESA STD
SVGA	800 X 600	60 Hz	37.9 KHz	40 MHz	VESA Guid.
SVGA	800 X 600	72 Hz	48.1 KHz	50 MHz	VESA STD
SVGA	800 X 600	75 Hz	46.9 KHz	49.5 MHz	VESA STD
XGA	1024 X 768	60 Hz	48.4 KHz	65 MHz	VESA Guid.
XGA	1024 X 768	70 Hz	56.5 KHz	75 MHz	VESA STD
XGA	1024 X 768	75 Hz	60 KHz	78.75 MHz	VESA STD
SXGA	1280 X 1024	60 Hz	64 KHz	108 MHz	VESA STD
SXGA	1280 X 1024	75 Hz	80 KHz	135 MHz	VESA STD
WXGA	1280 X 768	60-75 Hz	47.7-65 KHz	80.14 MHz	NOT STD
WXGA	1366 X 768	60-75 Hz	47.7-65 KHz	80 MHz	NOT STD
WSXGA	1440 X 900	60-75 Hz	65 KHz	150 MHz	NOT STD
WSXGA	1680 X 1050	60 Hz	70 KHz	150 MHz	NOT STD
UXGA	1600 x 1200	60 Hz	75 KHz	162 MHz	NOT STD
* FULL HD	1920 x 1080	60 Hz	69 KHz	138 MHz	NOT STD
* WUXGA	1920 x 1200	60 Hz	69 Hz	154 MHz	NOT STD

**Tabella 1**

**\* NOTE:**

Disponibile solo per la seconda versione

Type (A)



Type (B)



### **Navigazione menu:**

- “Menu/ enter” = Apre il menu principale / conferma il menu scelto;
- “Down” (Freccia in basso)= Scorre il menu scelto nelle varie opzioni;
- “-” = Sceglie i sottomenu verso sinistra / decrementa la regolazione;
- “+” = Sceglie i sottomenu verso destra / aumenta la regolazione;
- “SRC / Exit”= Cambia sorgente (RGB / DVI) / Esce dal menu OSD;
- “Power”= Accende / spegne il monitor..

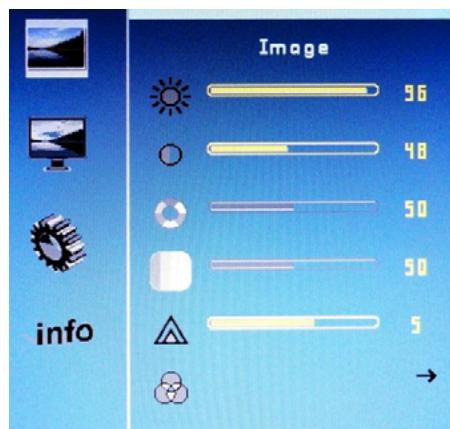
### **Settaggi on “screen display”**

Per accedere al menù a schermo, premere il tasto “MENU” posto sulla tastiera posta in alto nella parte posteriore del monitor.

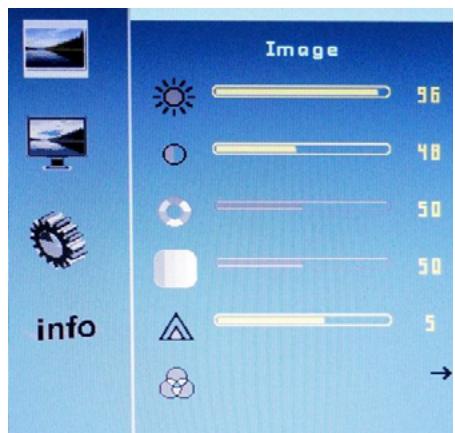
## 1.9 SETTAGGI SU MENU PER CHIPSET GRAFICO STDP 6038

### 1.9.1 MENU IMAGE

- Brightness: regola la luminosità dell'immagine;
- Contrast: regola il contrasto dell'immagine;
- Sharpness: regola la nitidezza dell'immagine;
- Color: passaggio al sottomenu colore;
- TASTO “SCR/Exit” sulla tastiera: esce dal menu.



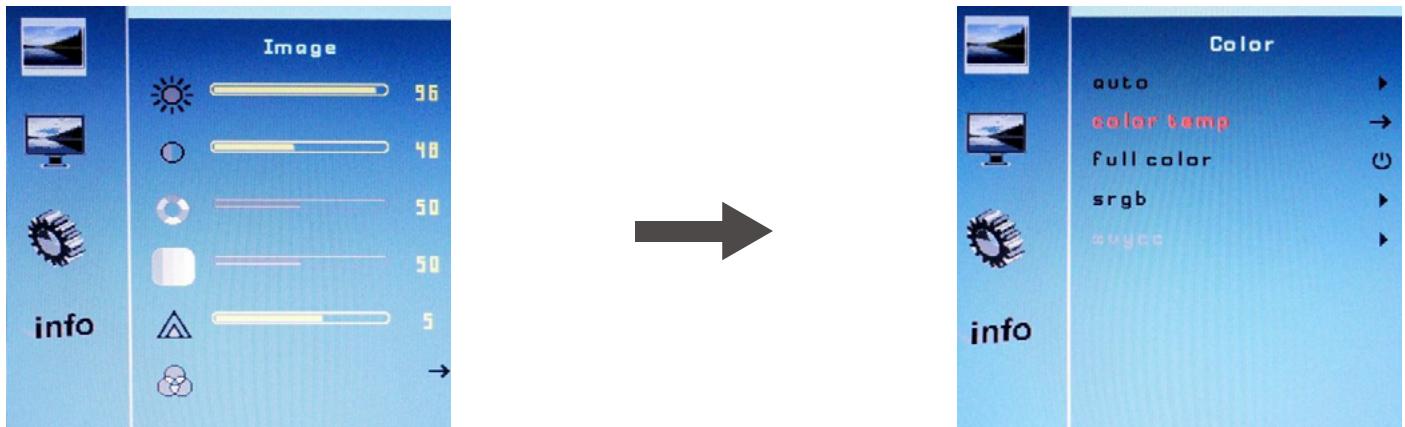
Esempio



### 1.9.2 MENU “COLOR”

- Auto (solo RGB): reimposta la temperatura di colore ai parametri di colore standard;
- Color Temp: permette di passare al sottomenu Color Temp;
- Full Color: permette di regolare l'impostazione predefinita FULL COLOR;
- sRGB: Permette di regolare lo spazio di colore sRGB;
- TASTO “SCR/Exit” sulla tastiera: torna al menu precedente.

#### Esempio



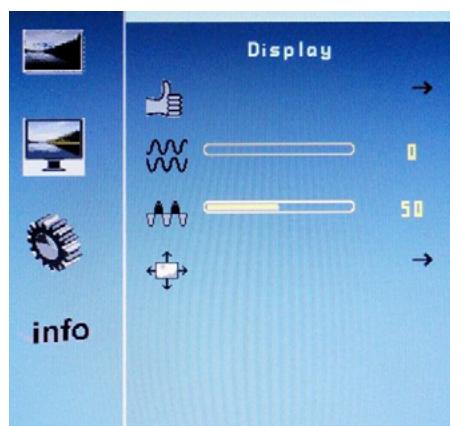
### 1.9.3 MENU “COLOR TEMP.”

- Impostazione della temperatura di colore;
- User: permette di aggiustare l'intensità dei colori primari;
- TASTO “SCR/Exit” sulla tastiera: torna al menu precedente.



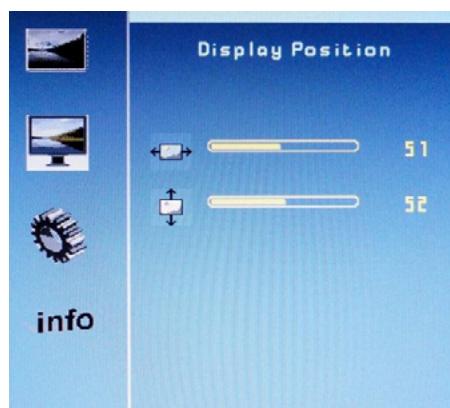
#### 1.9.4 MENU DISPLAY

- AUTO: adatta l'immagine allo schermo;
- Phase: regola la fase dell'immagine;
- Frequency: aggiusta la frequenza del segnale per migliorare la qualità dell'immagine;
- Display Position: permette di entrare nel sottomenu "Move Position";
- TASTO "SCR/Exit" sulla tastiera: torna al menu principale.



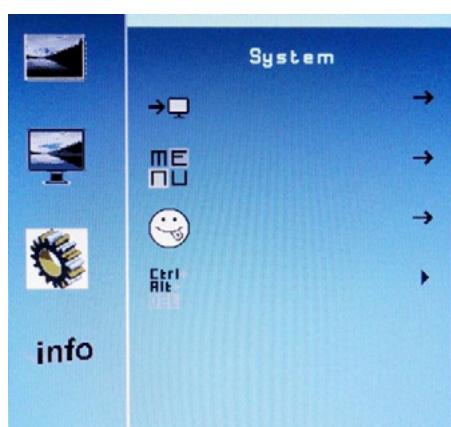
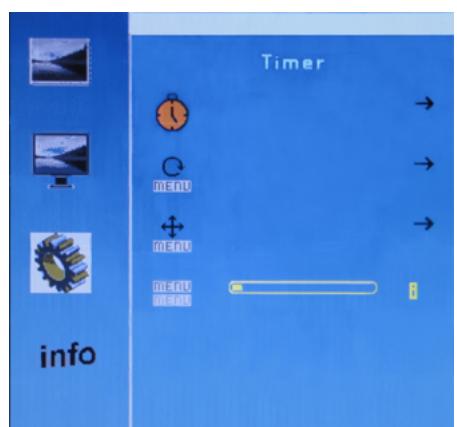
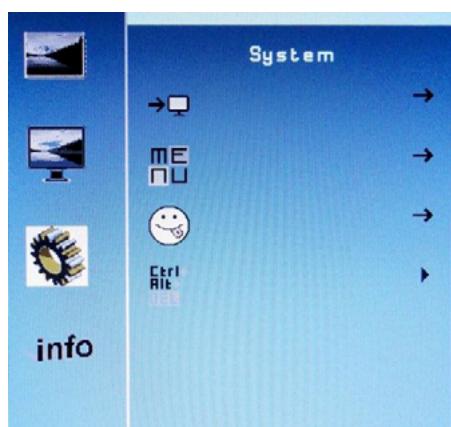
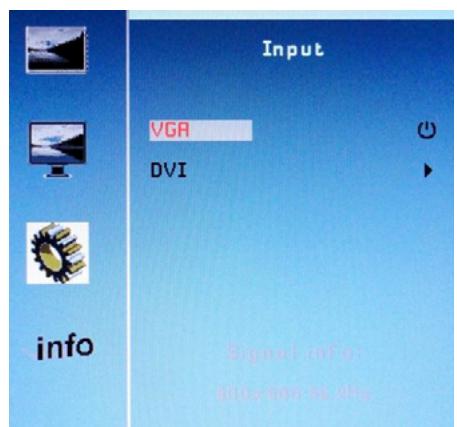
#### 1.9.5 MENU "DISPLAY POSITION"

- Permette lo spostamento dell'immagine in orizzontale e verticale.



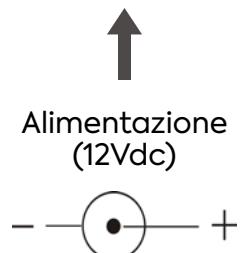
## 1.9.6 MENU “SYSTEM”

- Input: seleziona la sorgente video VGA o DVI
  - VGA: imposta l'ingresso video VGA
  - DVI: imposta l'ingresso video DVI
- OSD Settings:
  - Timer: regola il tempo di scomparsa del menu OSD
  - Rotation: ruota il menu OSD
  - Position: Regola la posizione verticale e orizzontale del menu OSD
- Language: Permette di cambiare la lingua del menu
- Reset: Restetta i parametri dei colori
- TASTO “SCR/Exit” sulla tastiera: Torna al menu precedente.

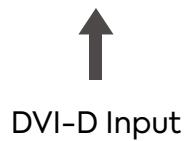


## 1.10 INPUT SOURCE

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Alimentazione  
(12Vdc)



DVI-D Input



VGA Input



USB



PW Input  
100-240 VAC



Switch  
On/OFF



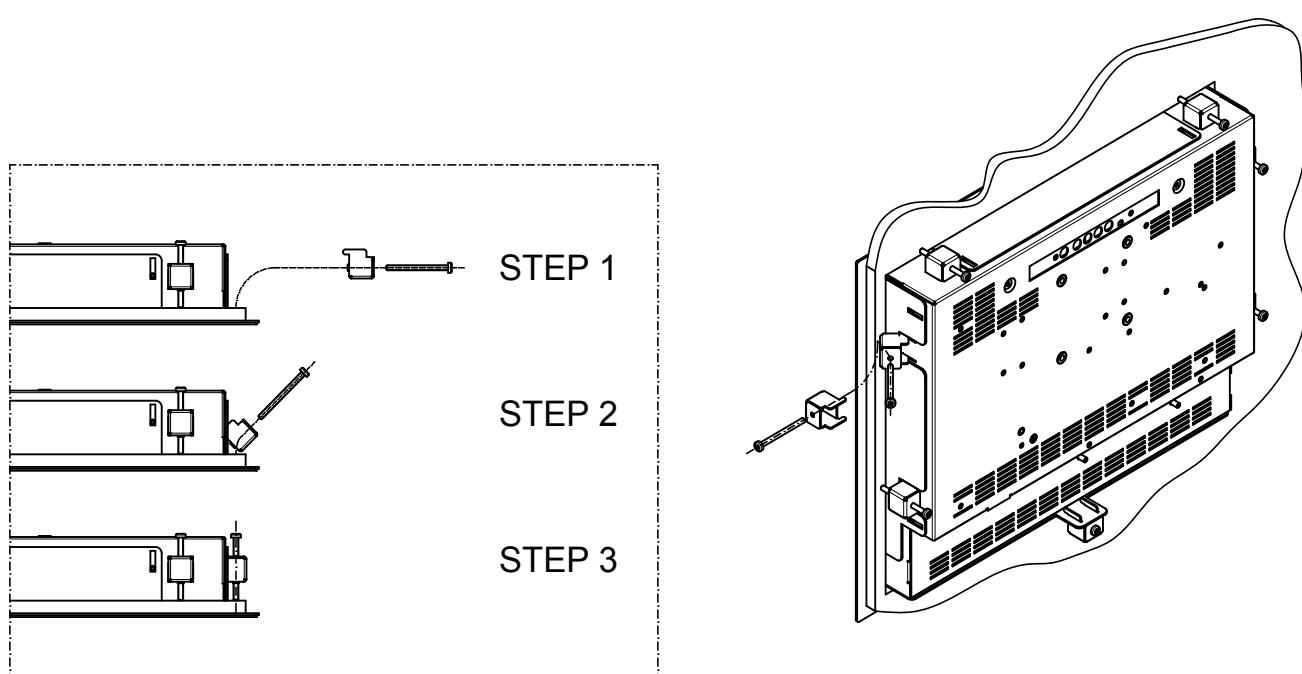
PW Input  
12VDC

**VGA CONNECTOR:**

Pin No.	Description	Pin No.	Type	Description
1	Analog Red	9	VGA 5Vdc	+ 5Vdc
2	Analog Green	10	SGND	Sync GND
3	Analog Blue	11	NC	No Connection
4	No Connection	12	SDA	DDC Serial data
5	GND	13	H SYNC	Horizontal sync
6	Red return	14	V SYNC	Vertical sync
7	Green return	15	SCL	DDC Data clock
8	Blue return			

**DVI-D CONNECTOR:**

Pin No.	Type	Pin No.	Type	Pin No.	Type
1	T.M.D.S. Data2-	9	T.M.D.S. Data1-	17	T.M.D.S. Data0-
2	T.M.D.S. Data2+	10	T.M.D.S. Data1+	18	T.M.D.S. Data0+
3	T.M.D.S. Data2/4shield	11	T.M.D.S. Data1/3 shield	19	T.M.D.S. Data0/5 shield
4	T.M.D.S. Data4-	12	T.M.D.S. Data3-	20	T.M.D.S. Data5-
5	T.M.D.S. Data4+	13	T.M.D.S. Data3+	21	T.M.D.S. Data5+
6	DDC Clock	14	+ 5V Power	22	T.M.D.S. Clock Shield
7	DDC Data	15	GND (5V, H-Sync, V-Sync)	23	T.M.D.S. Clock+
8	Analog Vertical Sync	16	Hot Plug Detect	24	T.M.D.S. Clock-

**ESEMPIO DI MONTAGGIO DI UN MONITOR PANEL MOUNT CON SUPPORTO DI SPINTA**

## 2 MESSA FUORI SERVIZIO E SMALTIMENTO

All'atto dello smaltimento del prodotto è necessario separare le parti elettriche ed elettroniche dalla componentistica metallica. Questi materiali devono essere smaltiti seguendo la vigenti normative sullo smaltimento dei rifiuti. In particolare la normativa RAEE prevede lo smaltimento delle componenti elettriche ed elettroniche attraverso aziende specializzate nel trattamento dei suddetti rifiuti.

## 3 ACCESSORI

### 3.1 SUP144

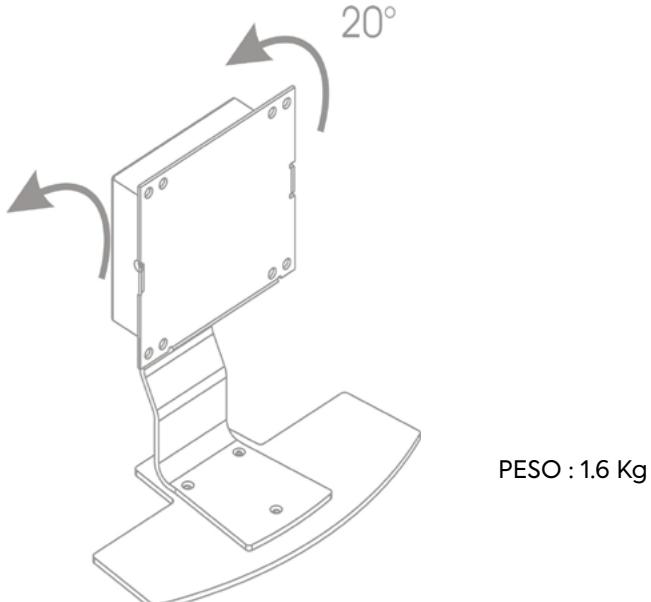
Supporto per il fissaggio a muro con “VESA” con inclinazione orizzontale e verticale regolabile.



PESO: 1.2 Kg

### 3.2 SUP143-K / SUP161-K (POUR VERSION 12" ET 15")

Base per monitor LCD da tavolo con attacco “vesa” con inclinazione verticale regolabile di (max 20°).

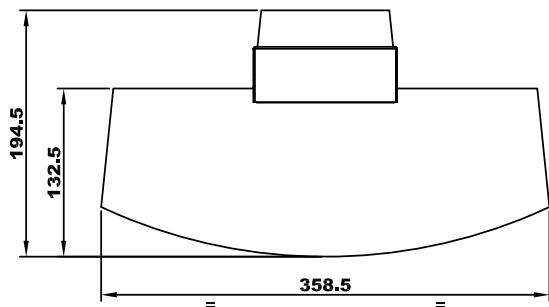
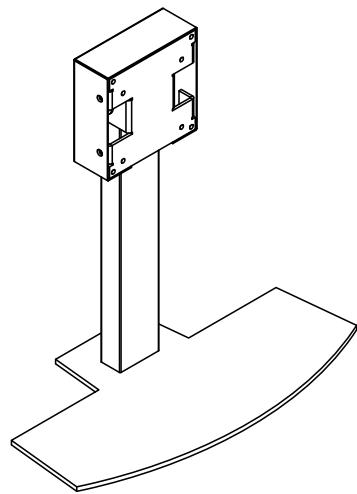
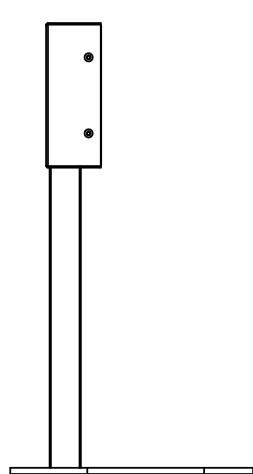
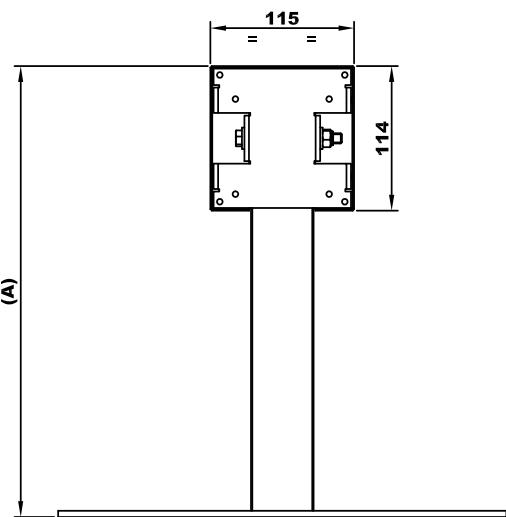


PESO : 1.6 Kg

### 3.3 SUP189-K / SUP231-K AND SUP189H-K / SUP231H-K

- SUP189-K / SUP231-K (Versione 2009 17" e 19")
- SUP189H-K / SUP231H-K (Versione 2011 17" e 19")

Base per monitor LCD da tavolo con attacco "VESA" 75-100 con inclinazione verticale regolabile.



**(A)**  
SUP189-K / SUP231-K  
SUP189H-K / SUP231H-K

296  
356  
**PESO**  
3 Kg  
3.3 Kg



**MNL197.1**