IF75T633/6

VESTEL

75" Interactive Flat Panel Display - IFM Series


Key Features

Scheduler

Digital Signage Monitor Software allows many important features such as Scheduler. Scheduler sets your display turn on/off time easily and lets you not to worry about the status of your displays in any time.


Operation Time Support

Professional Panels used with this series are quality confirmed to operate 24 hours a day without any issues. Our customers will experience the highest quality of our screens unlimited to any operation. Upon this, the series come with 400 Nits brightness levels suitable for medial indoor environment.
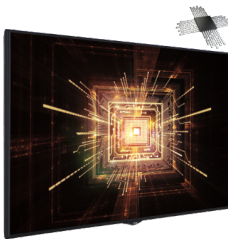

SoC Content Management

With quad core SoC (System on Chip), this Series displays are the digital signage monitors for both offline designed content and cloud-based managed content. This helps your digital content to be displayed in the displays by content management systems.
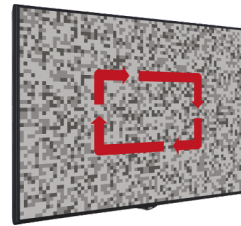
Pixel Shifting

Pixel Shifting is designed to be activated inside the SoC in order to prevent for potential risk of image sticking, caused by constant content. With this feature turned on, pixels on the screen will move in an interval while causing no interference of visual experience.
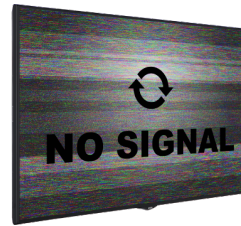
Signal Failover

Our SoC Software has a protection for "No Signal" scenario. If the USB is unplugged after your content is set to be displayed with USB, the display will either show your customized banner or search for any other signal from other sources (HDMI, Display Port, etc.). This failover protection is constructed for higher user experience.

Subtle Design

This series' displays exhibit ultra narrow bezel design eliminating the visual superfluities, directing audience focus on your advertised content. This series is found to be desirable for digital signage specific design: internal usb cover, OPS-slot, detachable power plug, carrying handles and IR extender.

Features

Built-in Connectivity
This series features wired and wireless connectivity such as embedded WiFi and Bluetooth. Due to the wireless capabilities, the displays can easily gather its content without any external device. Moreover, WiFi allows screen sharing to be enjoyed with Miracast.

Open Platform Support
Our SoC supports API (Application Programming Interface) for solution providers/integrators to develop and integrate any HTML5-based to be installed and used on our displays.

OPS Support
All our products in this series have compliance with OPS (Open Pluggable Standard). OPS will empower your screens with enhanced processing power and ability to choose Windows or Android as your operating system to fit your specific application.

Touch Support
Our touch screens are compatible with this series. Infrared (IR) Touch Screens is designed to equip your current product with user-interactivity allowing the display to be smart display and many interactive applications to be enjoyed by the end users.

Usb Security
This series lets your USB and your content to be secured within the back cover of the display. The cover is protected with a screw not allowing any outside intervention.

Daisy Chain
The display can mirror the content (to another display) into its display port out coming from its display port in. This set up creates a daisy chain like structure allowing for monitors to be set up as Video Wall mode.

Display Control
Digital Signage Display SoC enables the users to control our displays using RS232 commands in a Local Area Network. Together with the full RS232 command list you can change/set volume, turn on/off the monitor, set a schedule for content display, set a webpage link to be displayed and give a wide range of commands in real-time.

External Device Connections
You may want to connect your teleconference system, screen sharing system, set-top box or external PCs via HDMI port. For this purposes, our monitors help you to maximize user experience with HDMI CEC (Consumer Electronics Control) and HDMI Hotplug capabilities.

Auto Launch
We have made it easy to give any HTML5-based application link to the display within the SoC software. Upon this, the display will start with the given link. The application can either be an offline or an online application, allowing the customers to execute their own application.

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VESTEL

PANEL

Mainboard Model	17MB120DSR4-DSOPT6
H-Freq	135 Khz
Max. Pixel Freq.	78 MHz
V-Freq	60 Hz
Size	75"
Backlight Type	DLED
Panel Technology	IPS
Panel Type	16/7 Panel
Front Type	Touch Bezel Type
Orientation	Horizontal
Resolution	3840 x 2160 (16:9) - UHD
Active Area	1650 (H) x 928 (V)
Brightness (Cd / M2)	400 cd/m2
Contrast Ratio	1200
Dynamic Constrast Ratio	1M:1
Panel Life Time (Min.)	30000 Hr
Viewing Angle	178°
Response Time	9 ms
Color Value	8 Bit, 16.7 M Colors
Areas of Usage	Indoor

MECHANICAL

Size	1731mm (L) x 1008mm (H) x 119mm (D)
Shipping Size	1948mm (L) x 1248mm (H) x 310mm (D)
Weight	80 KG
Shipping Weight	90 KG
Vesa Mounting Size	600 mm(H)x 400 mm(V) M6
Bezel Width	38 mm / 38 mm / 38 mm

FEATURES

Main Features	Open Content Management Support, Scheduler, USB-Autoplay, Auto-Launch, HDMI-CEC, HDMI-Hotplug, Auto-switch on Failover, Panel Lock, OSD Rotation, NoSignalPowerOff, Screen Saver, Pixel shift, Scheduler, Videowall support, remote control via LAN, Real Time Clock
Mechanical Features	Joystick, IR Extender Support, Rocker Switch, Detachable power cable, Carrying slots, Detachable logo positioning, Internal usb cover, Cable Holder
Optional Features	OPS Compliance
Speaker	2 x 12 W

ACCESSORY

Standard	QSG, Warranty Card, IB, Power Cord, Remote Control Unit, RC Battery, Mounting Kit, Extension Brackets, IR Extender Cable

MONITOR CONNECTIVITY

RGB Input	Dsub 15 PIN VGA CON., YPbPr
Video Input	2xHDMI2.0, 1xUSB3.0, 1xUSB2.0, 1xUSB2.0(USB Cover)
Video Output	HDMI out
Audio Input	LINE IN JACK
Audio Output	LINE OUT JACK
External Control	RS232(DSUB 9P), RJ12, Ethernet

WORKING CONDITIONS

Temperature Conditions	+40°C / 0°C
Humidity	90%

POWER

Power Supply	110 VAC - 240 VAC
Power Consumption (Off)	≤0.5W

TOUCH TECHNOLOGY

Type of Touch Technology	Infrared (IR) Technology
Supported Point	10 Points
Sensitivity	Any touch with finger, gloved hand or pointer
Connectivity	HID, TUIO, Flash
Supported OS and Applications	Windows®7,Windows®8, Windows®10, Vista, XP, Mac® OS, Linux, Android
Orientation	Landscape support
Calibration	No need
Accuracy	%90 <
Reporting Rate	Up to 450 fps
Glass Type	Anti Glared (AG), Tempered 4mm
Frame Rate	up to 450 fps
Communication	USB 2.0
Power Supply Mode	USB
Supply Voltage	DC 5V +/- 5%
Average Current	<400mA
Response Time	<10ms
Touch Accuracy	+/-2mm (over 90% area)
Object Sizes for Touch	5mm
Touch Durability	Unlimited
HID Compatibility	Yes USB

CERTIFICATION

|	
Safety Approval	YES
CB	YES
EMC Approval	YES
CE	YES
Reability Approval	YES

Image not found or type unknown

TESTING STANDARDS

The measurement should be executed in a stable, windless and dark room 60min after lighting the back light at the given temperature for stabilization of the back light. This should be measured in the center of screen. Environment condition: Ta = 25 ± 2 °C.
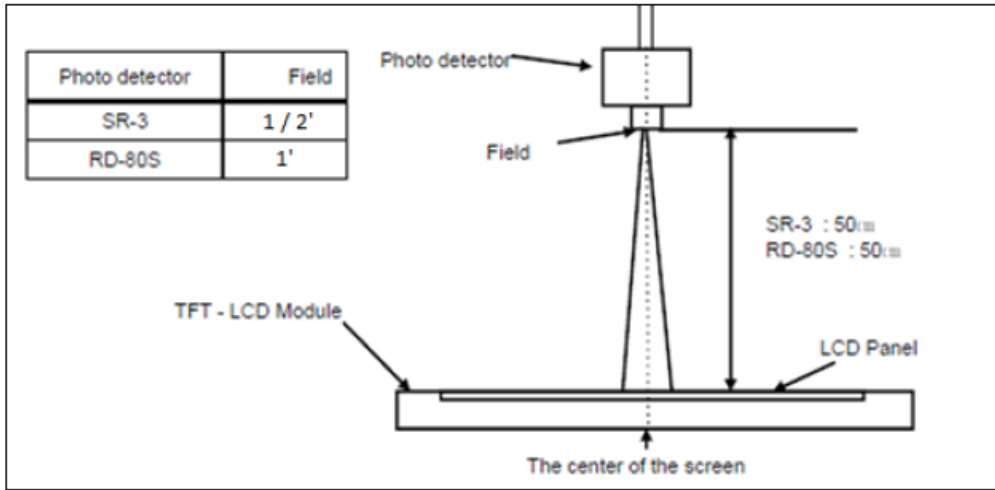
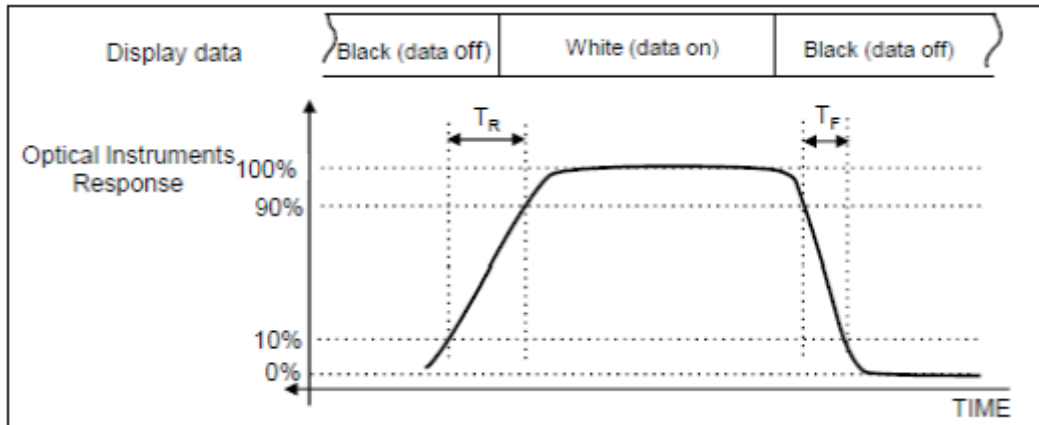**Definition of Test Points:**
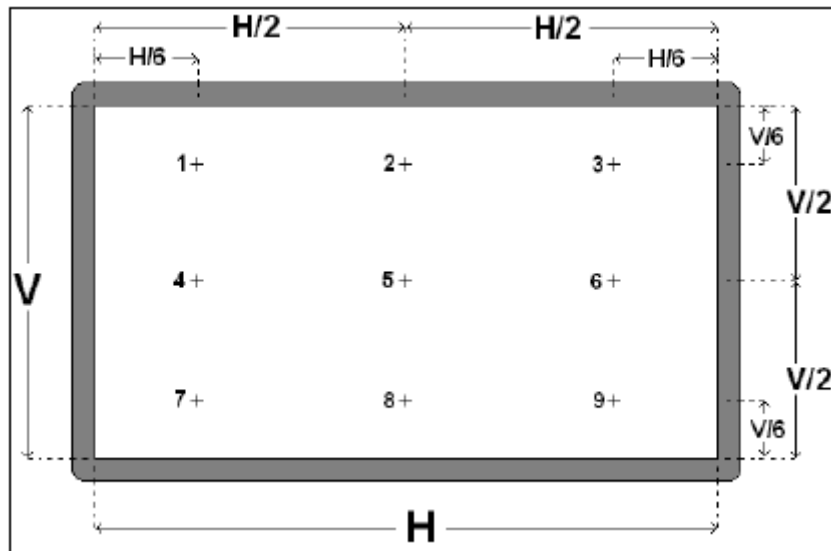
Note (1) Definition of Contrast Ratio (C/R):

Ratio of gray max (Gmax) & gray min (Gmin) at the center point (5) the panel

$$\frac{C}{R} = \frac{Gmax}{Gmin}$$

Gmax: Luminance with all pixels white

Gmin: Luminance with all pixels black

Note (2) Definition of Response Time: TR + TF

Note (3) Definition of 9 points brightness uniformity:

$$Buni = 100 * \frac{(Bmax - Bmin)}{Bmax}$$

(Test pattern: Full White)

Bmax: Maximum brightness

Bmin: Minimum brightness
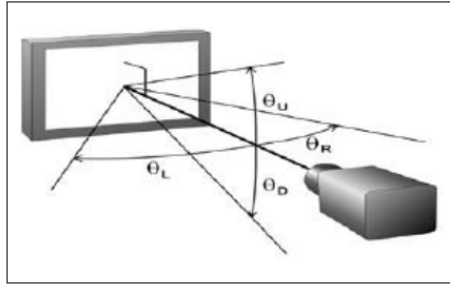
Note (4) Definition of Luminance of White:

Luminance of white at center point 5

Note (5) Definition of White Color Chromaticity:

Color coordinates of White at center point 5

Note (6) Definition of Viewing Angle

Viewing angle range (C/R > 10)

Safety

IEC 60950-1: 2005+A1:2009

EN 60950-1: 2006+A11: 2009+A12:2011

EMC

Immunity Tests	
Specification	**Description**
EN 55024:2010	Immunity
EN 61000-4-2:2009	Electrostatic Discharge (ESD)
EN 61000-4-3:2006+A2:2010	Radiated, radio-frequency, electromagnetic field immunity
EN 61000-4-4:2004+A1:2010	Electrical Fast Transient/Burst Immunity
EN 61000-4-5:2006	Surge
EN 61000-4-6:2009	Conducted Disturbances Induced by Radio-Frequency Fields
EN 61000-4-11:2004	Voltage Dips and Short Interruptions

Emission Tests	
Specification	**Description**
EN 55022:2010/AC:2011 – Class B	Disturbance Voltage at the Mains Terminals (Conducted Emission)
EN 55022:2010/AC:2011 – Class B	Disturbance Voltage at the Telecommunication Terminals (Conducted Emission)
EN 55022:2010/AC:2011 – Class B	Field Strength (Radiated Emission) (1GHz-6GHz)
EN 55022:2010/AC:2011 – Class B	Field Strength (Radiated Emission) (30MHz-1GHz)
EN 61000-3-2:2006+A1:2009+A2:2009	Harmonics
EN 61000-3-3:2008	Flicker

Note EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN61000-4-8 and EN 61000-4-11 are basic standards referred from EN 55024.

According to EN 55024, EN 61000-4-8 Power Frequency Magnetic Field test is not performed since the EUT is not sensitive power frequency magnetic field.

EN 301489 – 1 V1.9.2	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
EN 301489 – 17 V2.2.1	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment; Part 17: Specific conditions for Broadband Data Transmission Systems

Reliability Test Standards

Low Temperature Test

Products must be boot up without any delay more than one minute. No abnormality on operation. There mustn't come out any electrical and functional problems.

Test Condition :

Temperature: -15 °C , Humidity: 50% , Duration: 24 hours , Mode of Operation: Power Off

High Temperature Test

After the test, product should work properly as electrical and mechanically.

No software crash, No hang up, No lock up.

Test Condition :

Temperature: 50 °C , Humidity: 90% , Duration: 72 hours , Mode of Operation: 3D Mark 2011

Life Test

After the test Product should work properly as electrically and mechanically.

No software crash, No hang up, No lock up.

Test Condition :

Temperature: 35 °C , Humidity: 50% , Duration: 150 hours , Mode of Operation: 3D Mark 2011

Drop Test

Product should work properly and there mustn't be any crack at the cabin or any cosmetic problem. In addition, there mustn't be any major problem at the product packaging and snow boxes.
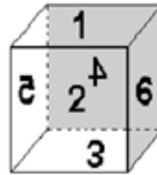
The test is performed on the packed digital products sample under following conditions;

Drop Order :
1- Face 3of the package
2- 2-3-5 corner of package
3- 2-5   edge of package
4- 3-5   edge of package
5- 2-3   edge of package
6- Face 1 of the package
7- Face 5 of the package
8- Face 6 of the package
9- Face 2 of the package
10- Face 4 of the package

Total: 10 drops

Test Condition :

Dropping height: Face 3 (Bottom surface): 55cm, Other surfaces: 40cm Temperature: 25 ± 2 °C , Humidity: 45% ± 10

Vibration Test

Product should work properly and there mustn't be any crack at the cabin, at the solder points of chassis, at the pins of components. In addition, there mustn't be any major problem at the product packaging and snow boxes.

Direction of Vibration	Frequency of Vibration	Power Spectral Density	Sweep Time	Total Duration	Acceleration
Z	10Hz – 500Hz	0.002G2/Hz	10min	60min	1Grms(9.81m/s2)