QUICK START GUIDE / *VX7e Deluxe Kit*

ikan

INTRODUCTION

Thank you for purchasing the ikan VX7e HD-SDI LCD Monitor. We know that you will be satisfied with our "V" series monitors. Please visit www.ikancorp.com for more information on our current and future products including our award-winning fluorescent studio lights and light accessories.
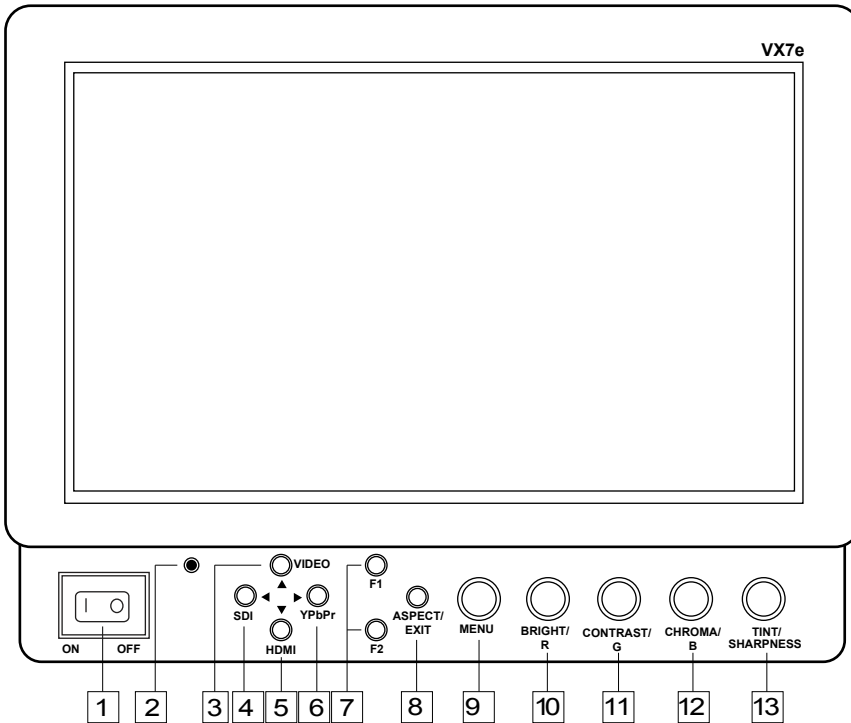
PACKAGE INCLUDES

❑ VX7e Monitor
❑ AC Power Adapter
❑ Camera Shoe Mount
❑ DV Battery, Battery Plate & Charger (Check One)
❑ Metal Case

○ **BP2-S**   Sony "L" Series
○ **BP2-C**   Canon "900" Series
○ **BP2-P**   Panasonic "D54" Series

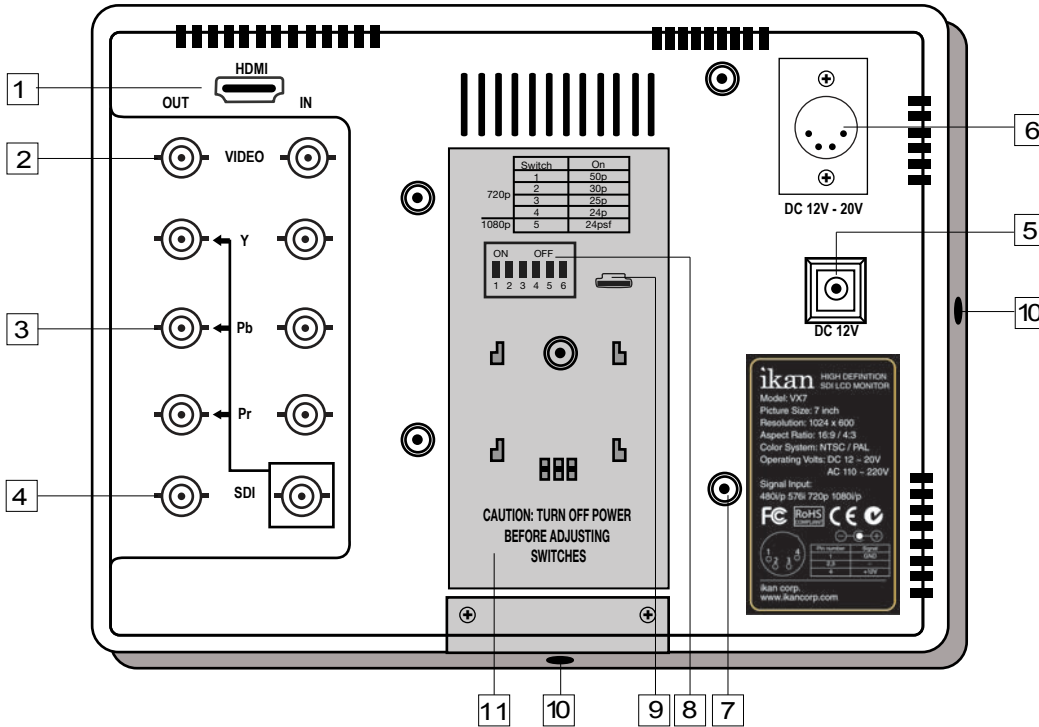*Checked by*

MONITOR DIAGRAMS

Front view

User programmable function buttons. For quick access, the user may program the F1 and F2 buttons to enable frequently accessed monitor features.

1 **Power Switch**
Power ON / OFF

2 **Power Indicator Light**
When the power is ON, the LED green lights up.

3 **VIDEO Selection Switch**
Video input

4 **SDI Selection Switch**
Serial digital interface input (HD/SD compatible)

5 **HDMI Selection Switch**
High-Definition Multimedia Interface input

6 **YPbPr Selection Switch**
Analog component or RGB input

7 **F1 and F2 Buttons**
Function key actions are selected in the menu.

8 **ASPECT/EXIT Selection Button**
Aspect: 16:9, 4:3, Full
In MENU, it is to exit the menu.

9 **MENU Knob**
It is to display menu, select settings, and adjustments.
(Push the knob to select, turn the knob to adjust settings.)

10 **BRIGHT/R Knob**
1: Adjust brightness 0 - 60 (30)
2: Adjust red channel

11 **CONTRAST/G Knob**
1: Adjust contrast 0 - 60 (30)
2: Adjust green channel

12 **CHROMA/B Knob**
1: Adjust chroma 0 - 60 (30)
2: Adjust blue channe

13 **TINT/SHARPNESS Knob**
1: Adjust tint 0 - 60 (30)
2: Adjust sharpness 0 - 60 (30)

Rear view

Table shown in diagram:

Switch	On
1	50p
2	30p
3	25p
4	24p
5	24psf

720p / 1080p

ON   OFF
1 2 3 4 5 6

DC 12V - 20V

DC 12V

HIGH DEFINITION
SDI LCD MONITOR
Model: VX7
Picture Size: 7 inch
Resolution: 1024 x 600
Aspect Ratio: 16:9 / 4:3
Color System: NTSC / PAL
Operating Volts: DC 12 – 20V
                 AC 110 – 220V
Signal Input:
480i/p 576i 720p 1080i/p

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CAUTION: TURN OFF POWER
BEFORE ADJUSTING
SWITCHES

1   **HDMI terminal**
HDMI input only

2   **VIDEO terminal (BNC)**
IN   : Composite signal input terminal
OUT: : Input signal through-out terminal

3   **YPbPr terminal (BNC)**
IN   : Component signal input terminal
OUT: : Input signal through-out terminal

4   **SDI (HD/SD) terminal (BNC)**
IN   : SDI input terminal - 1.5G
OUT: : Input signal through-out terminal (Reclock)

5   **DC 12-24V power terminal**
Standard DC Connection

6   **DC 12-24V power terminal**
XLR DC Connection

7   **Vesa 100mm Mount Holes**
Threaded for M4x.07 screws. Use to attach pro battery
plate adapter or for mounting third party vesa mounts.

8   **DIP Switch**
DIP Switches 1 - 5 enable special 720p modes. For the monitor
to correctly display certain 720p signals, it is necessary to
configure the DIP switches. DIP Switch 6 is for longer SDI
cable (>100ft).

9   **USB terminal**
For factory service use only

10   **¼-20 Threaded insert (on four sides of monitor)**
Mounting Monitor

11   **DV Battery Plate Slot**
Mounting ikan DV battery plate

***NOTE – The user must turn the monitor off before making changes to the DIP switches. Failure to do so may damage the monitor or make the monitor unusable.**

CONFIGURATION OF SETTING MENUS

Brightness —————— 0-60
Contrast —————— 0-60
Chroma —————— 0-60
Sharpness —————— 0-60
Tint —————— 0-60
Color Temp.
    User 1-5
    5600K
    6500K
    9300K

OSD Language
    English
    Chinese
OSD Duration —————— 5-60 second
    French
OSD Flip —————— Yes /No
    Spanish
H Flip —————— Yes /No
V Flip —————— Yes /No
Luma Under Warn
Luma Over Warn

Fuction 1
    Window 1
    Window 2
    HV Delay
    Guides
    Peaking
    False Color
    Clip Guides
    Underscan
    Blue Gun
    Pixel

Fuction 2
    Window 1
    Window 2
    HV Delay
    Guides
    Peaking
    False Color
    Clip Guides
    Underscan
    Blue Gun
    Pixel

System Reset

This function recalls user defined values for the Red, Green and Blue settings .The user setting will remain in memory indefinitely and can be erased by using the reset option in the main menu.

As an additional tool associated with the VX7e's False Color feature, ikan's exclusive Adjustable Under Exposure and Over Exposed Waning feature gives the operator full control of the VX7e False Color brightness values. By setting the preferred IRE exposure limits, the operator is warned when the image exposure is exceeding or falling under the preset IRE limit, providing customizable, full image exposure control.

This function displays a side by side comparison of the incoming video signal. Pushing the F1/2 button one time will enter the mode. Each time the F1/2 button is pushed it will freeze the current frame on the right hand side of the display while the left continues to display the live signal. Pressing the exit button will exit the window mode. Use Window 1 for 16:9 signals and Window 2 for 4:3 signals.

This function displays the blanking portion of the incoming signal.

The VX7e is equipped with both Monochrome and Color Peaking features which highlight the desired focus area in a bright, silver outline. The operator adjusts the focus control until the silver indicator outlines on the desired area are razor sharp, indicating optimal focus. For the best results, be sure the subject is properly exposed.

The False Color feature utilizes a full spectrum of assigned color indicators, ensuring flawless shot exposure. As the camera Iris is adjusted, the subject of the image will change color based on specific brightness values indicating optimal exposure. See included chart for color assignments.

The VX7e offers adjustable upper Clip Guide levels to accurately display overexposed images in any shooting condition. The operator simply assigns the upper IRE to their preference and any exposure over the set IRE limit will flash in a vivid purple, indicating only the over exposed area.

This function turns off the red and green channels of the display or set the display into monochrome mode and is used to calibrate the display when using SMPTE or ARIB color bar patterns. The blue only setting will allow the user to adjust the hue and saturation of the display and the monochrome may be used to set the brightness and contrast.

The LCD panel in this display has a native display of 1024 x 600 pixels. A signal of any other resolution is scaled to fit this native resolution. There may be time when it is desired to view the incoming signal without scaling. Enabling Pixel to Pixel mode turns off the scaling and displays a 1024x600 pixel window of the original image. Each pixel of the panel displays one pixel of the original image. The user may use the arrow buttons (buttons 5-8) on the monitor face to move the window left, right, up and down to see the desired portion of the image.

DIGITAL TO ANALOG CONVERSION [SDI > YUV]

The monitor can convert digital SDI signals to Analog YUV. A signal from the SDI will be displayed on the YPbPr analog outputs. This is a straight digital to analog conversion only. There is no up converting, down converting or standards conversion available in this feature. This feature works in one direction SDI to analog. It will not work in reverse.

POWERING THE MONITOR

1. Plug the AC power adapter into the power input jack (*See rear view diagram* [5]).
2. Attach the DV battery plate on the slot, and connect DV battery to the plate.
3. Connect a pro battery using the optional pro battery plate and then plugging that plate with the power tap cable into the DC-In connector *(See rear view diagram* [6] *)*. The pro battery plate kits (VXPBK-S or VXPBK-A) allow you to go into the field using standard V-Mount or Gold-Mount batteries.

SPECIFICATIONS

Screen Size	: Diagonal 7" TFT - LCD
Resolution	: 1024 x 600
LCD Brightness	: 350NIT
Contrast Ratio	: 400:1
Viewing angles	: 140(H) 110 (V)
Operating Volts	: DC 12-20V
Power Consumption	: 8.0 Watt
Operating Temp.	: 0 to +50°C
Dimension	: 5.5" x 7.2" x 1.2"
Weight	: 1.2 lbs

SUPPORT RESOLUTION - HDMI, HD-SDI, Component, Composite *(Not all modes supported on all inputs)*

480/59.94i	720/50p	1080/29.97p
480/59.94p	720/59.94p	1080/30p
576/50i	720/60p	1080/50i
576/50p	1080/23.98psf	1080/50p
720/23.98p	1080/24psf	1080/59.94i
720/24p	1080/23.98p	1080/59.94p
720/25p	1080/24p	1080/60i
720/30p	1080/25p	1080/60p

CONDITIONS OF WARRANTY SERVICE

• Free service for one year from the day of purchase if the problem is caused by manufacturing errors.
• The components and maintenance service fee will be charged if the warranty period has expired.

Free Service will not be Provided in the Following Situations: (** *Even if the product is still within the warranty period.)*
  • Damage caused by abuse or misuse, dismantling, or changes to the product not made by the company.
  • Damage caused by natural disaster, abnormal voltage, and environmental factors etc.

False Color Key

Use the adjustable
warning to prevent
over exposures in
your video

100 IRE / 714mV

Red over warning is
adjustable from
80 IRE - 110 IRE /

Use the 70 - 80 IRE
indicators to assist in
setting exposure for
white objects.

80 IRE / 571mV
75 IRE / 535mV
70 IRE / 500mV

Use the 56 IRE indicator
to assist in setting
exposure for skin tones

56 IRE / 400mV

Use the 45 IRE indicator
in assist in setting
exposures when using
a gray card

45 IRE / 321mV

Magenta under warning
is adjustable from
10 IRE - -110 IRE

10 IRE
below 0 IRE / 0mV

Use the adjustable
warning to prevent under exposures in your video