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CRYSTAL IMAGE TECHNOLOGIES

Rugged Portable Display

Part# PD-F115A-MIL (Military Grade)

User Manual



This manual, covering various aspects of the equipment such as installation, setup and cascade, will help you make full use of this portable display. Please read this manual carefully and operate the equipment according to the manual to avoid damage to this product and its accessories.

Product contents includes following items:
1 * 15.6 inch Portable display
1 * AC Power Adapter, with lock connector
1 * USER'S manual (CD)
1 * 1.8 Meter VGA cable
1 * 1.8 Meter DVI cable
1 * 1.8 Meter HDMI cable
1 *1.8 Meter USB A Type cable

Please check items above. If any item is missing or damaged, please contact us at 800-542-2489 or sales@rackmountsales.com

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1. Product Specifications

Connectors		HDMI, DVI-D, VGA, USB
LCD	**Size**	15.6"
	Backlight	LED
	Resolution	1920*1080 Full HD (support resolution up to 1920x1200)
	Max.color	262K
	Luminance	1000cd/m2
	View Angel (H/V)	140 / 120
	Contrast Ratio	650 : 1
USB HUB		2x Rear USB 2.0 Type A for peripheral USB devices
Touch Screen		for option (Driver needed)
KB/Mouse Emulation		USB 2.0
Power		100-240V AC 50/60Hz External Power Adapter with lock connector
Environment (MIL-STD-810)		Operation temp: 0 to 50℃ Storage temp: -20 to 60℃ Humidity: 10% - 90%, non-condensing Shock: 10G acceleration (11ms duration) Vibration: 17 to 500Hz 1G PTP
Physical Dimensions / Net Weights		390x70x305mm (WxHxD) / 4KG
Packing Dimensions / Gross weights		580x230x470mm (WxHxD) / 8KG

LCD Applicable Format:

VGA	DVI	HDMI
1920 x 1200 x 60Hz	1920 x 1200 x 60Hz	1920 x 1200 x 60Hz
1920 x 1080 x 60Hz	1920 x 1080 x 60Hz	1920 x 1080 x 60Hz
1680 x 1050 x 60Hz	1680 x 1050 x 60Hz	1680 x 1050 x 60Hz
1600 x 1200 x 60Hz	1600 x 1200 x 60Hz	1600 x 1200 x 60Hz
1440 x 900 x 60Hz	1440 x 900 x 60Hz	1440 x 900 x 60Hz
1280 x 1024 x 60Hz	1280 x 1024 x 60Hz	1280 x 1024 x 60Hz
1280 x 768 x 60 Hz	1152 x 864 x 60Hz	1152 x 864 x 60Hz
1280 x 720 x 60Hz	1024 x 768 x 60Hz	1024 x 768 x 60Hz
1152 x 864 x 60Hz	1024 x 768 x 70Hz	1024 x 768 x 70Hz
1024 x 768 x 60Hz		
1024 x 768 x 70Hz		

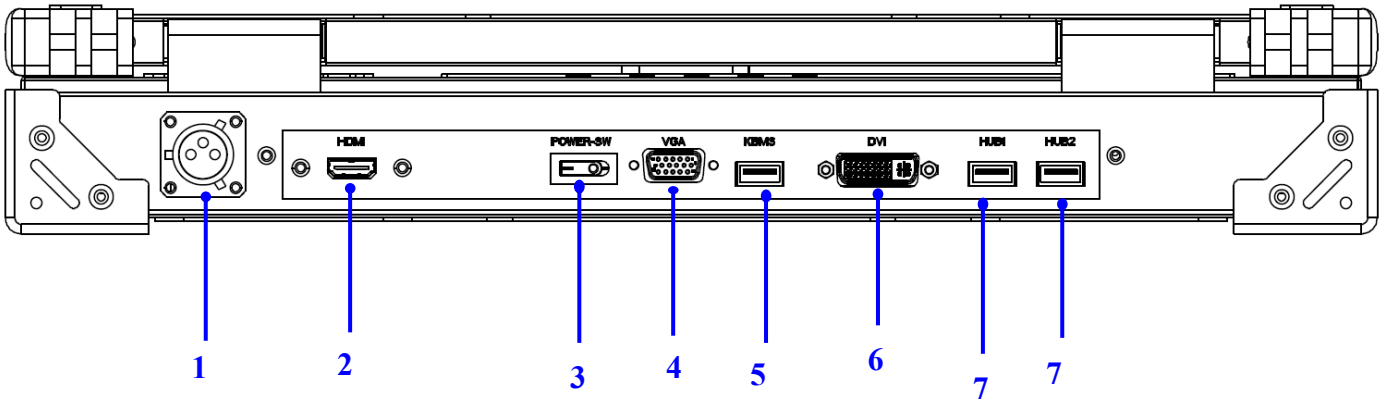
Note: If there is any special resolution requirements or specific applications, please check with us for compatibility and customization options.

2. Front view



NO	Description
1	Rugged Rubber Bumpers
2	15.6" FHD LCD display with high brightness
3	104-keys IP65 silicone keyboard and touchpad with backlight
4	Industrial Rugged Handle
5	Heavy Duty Aluminum Latch - slide to lock/unlock LCD panel
6	OSD buttons to navigate the display settings

3. Rear view



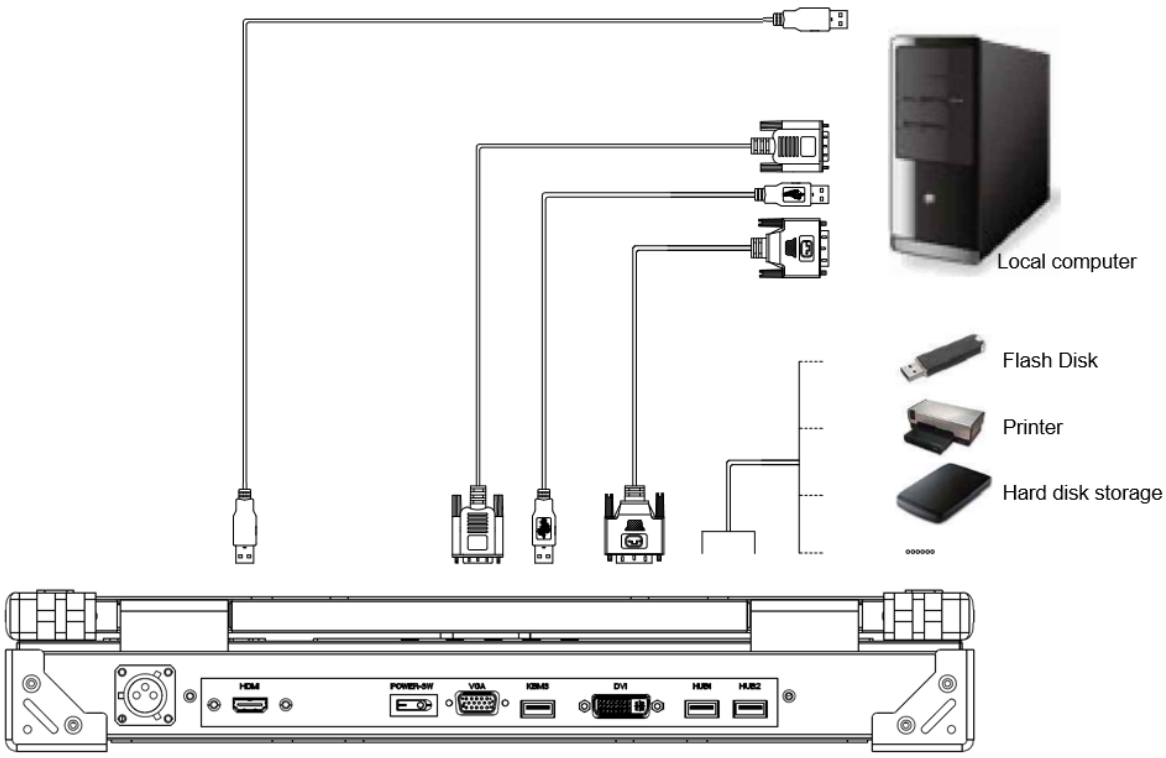
No	Component	Function Description
1	DC Power port	Lock connector for external power adapter (AC100~240V)
2	HDMI port	Connect to server or KVM
3	Power Switch	Turn ON/OFF main power
4	VGA port	Connect to server or KVM
5	USB port	Connect to server for keyboard and mouse
6	DVI port	Connect to server or KVM
7	USB 2.0	For USB peripheral devices

4. Connection

Please follow the installation drawing and instructions below for standard installation:

* Please turn off power of equipment to be connected
* Please Pay Attention to Earthing/Grounding of Equipment

The standard installation is completed, and portable display can be powered on. Then power on connected hosts.

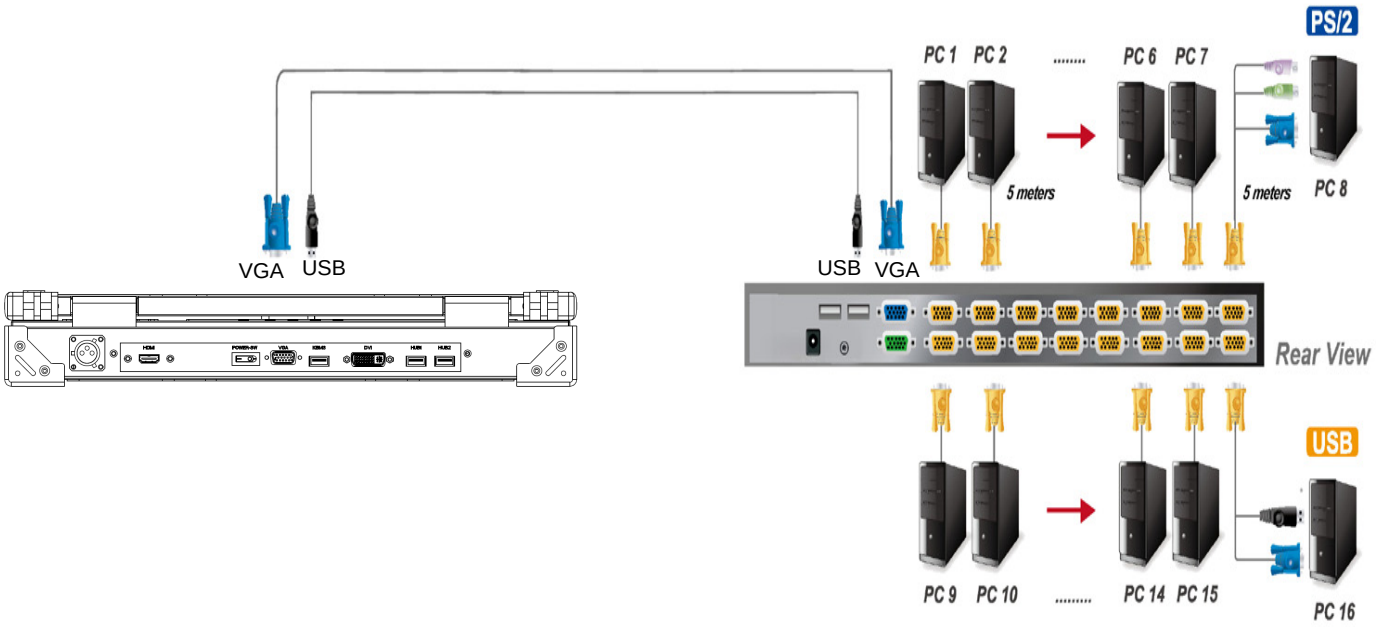


5. LCD KVM Console and KVM Cascade Installation

The portable display can be directly connector to another KVM Switch - cascade to perform unified management of all connected hosts. Please follow the installation drawing and instructions for standard installation:

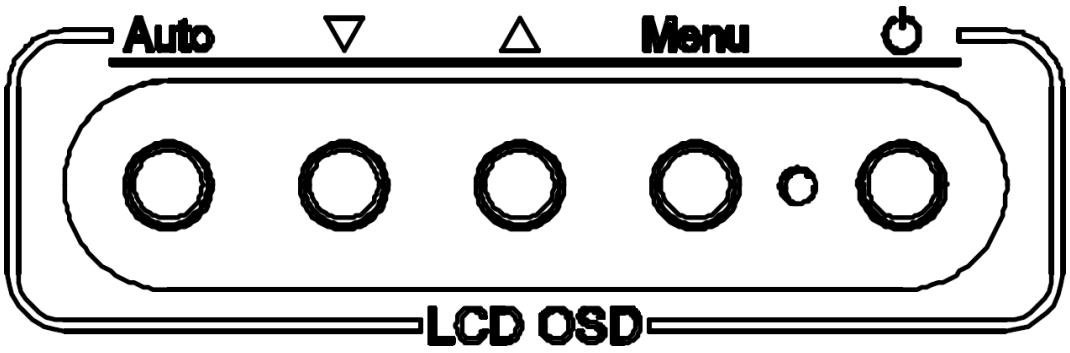
(1) Make sure to power off all equipment to be connected on existing equipment.
(2) Selecting slide switch on USB position
(3) Use an USB / VGA cable to connected the LCD and KVM switch console port.
(4) Turn on the power of the KVM and portable display first and then power on hosts to prevent loss of keyboard or mouse.

Cascade connection drawing:



6. LCD OSD Menu Setup

On-screen display menu to adjust the LCD display. There are five buttons:



Button	Functions
⏻	Turn on / off the LCD Display
Menu	Activate OSD menu / press to confirm the selection and enter into the sub-menu
▲	For scrolling or adjusting
▼	For scrolling or adjusting
Auto	For video input selection

7. Certificates

The PD-F115A-MIL portable console is in conformity with the relevant Union harmonization legislation:

2014/35/EU (LVD Directive)	EN 60950-1: 2006+A11: 2009+A1: 2010+A12: 2011+A2: 2013
2014/30/EU (EMC Directive)	EN 55032: 2015 EN 61000-3-2: 2014 EN 61000-3-3: 2013 EN 55024: 2010+A1: 2015
2011/65/EU (RoHS Directive) and its amendment (EU) 2015/863	on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) with exemption clauses 6c, 7a, 7c-l.
REACH Regulation (EC) NO. 1907/2006	to determine the content of the two hundred and twenty-three Substances of Very High Concern (SVHC) in the submitted sample. The SVHC which is defined as UVCB substance (substance of **U**nknown or **V**ariable composition, **C**omplex reaction products or **B**iological materials)

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