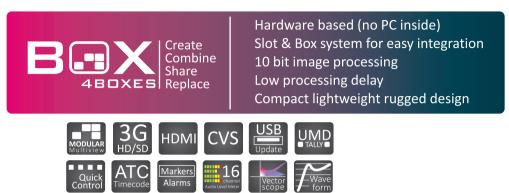
CRALTECH Professional LCD Monitors & Multiviewers

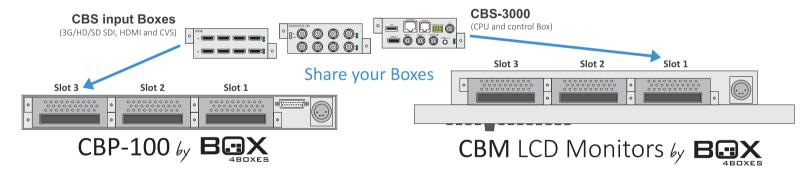
3G/HDMI/CVS Modular Multiviewers

Easy and friendly modular system with all signals you need!





Friendly & easy to integrate Box and slot system. Build your system!



LCD Monitors & Standalone Multiviewers

Box4Boxes is an easy to use line of modular Multiviewer systems, based on a unique and innovative slot and Boxes system. The slot system and combinable rugged and easy to integrate input Boxes allow to create and configure custom Multiviewer LCD Monitors and Standalone Multiviewer Processors, add new inputs in the future and make servicing easier.

All inputs can be displayed on-screen simultaneously in any size and position (custom layout) or using one of the multiple factory presets. Box4Boxes systems integrate all professional features as UMD & Tally, Markers, Real time colour Waveform and Vectorscope, 16 Channel Audio Level Meters, alarms, clocks,... Rugged, fanless and lightweight aluminium design means the system works silently in any environment.

High quality Hardware based systems

Purely based on hardware (no PC and no hard-drive) the Box4Boxes Series offers a minimum frame delay, and maximum reliability with a high quality 10 bit image processing engine.

All our Box4Boxes Multiviewer LCD Monitors and Video Processors must integrate a CBS-3000 control Box and can combine 3G/HD/SD-SDI, HDMI® and CVS input Boxes. CBS-3000 control Box integrates an Ethernet connector to control the Multiviewer remotely using our user friendly Control Software (SNMP compatible), and USB connector for upgrades. The CBS-3000 integrates a cascading capability to increase the number of sources to be displayed in your system.



CBP-100 by BEX

3G/HDMI/CVS Modular Multiviewer



Up to 16 inputs in 1 RU and cascading capability to increase your system "Custom vour system" Hardware based (no PC inside) Slot & Box system for easy integration 10 bit image processing Low processing delay Compact light weight rugged design













CBP-100 Box and Slot System

- Easy to use Modular Multiviewer system
- Hardware based (NO Pc, NO hard-drive)
- Up to 16 (3G/HD/SD-SDI, HDMI®, CVS) inputs in 1RU (3 Slots).
- Dual HDSDI and 1 HDMI outputs (CBS-3000 Control
- Rugged and user friendly Boxes system for easy
- 10 bit image processing with low processing delay
- Quick control: Easy to use keyboard with 11 user configurable direct keys and encoder
- Aspect Ratio Selection (4:3, 16:9)
- Markers and safety areas
- ATC Time code(3G/HD/SD-SDI)
- No audio, Silence, No input and Black image on screen alarms

- Real time colour Waveform (Selectable RGB, R. G. B, YCbCr, Y, Cb, Cr) and Vectorscope per input
- 16 Channel Audio Level Meters (3G/HD/SD-SDI embedded audio) (Vertical or Horizontal)
- NTP and Local Clocks and Timers
- 16 characters UMD and video format information
- Tally and UMD, TSL 3.1 and 5.0 compatible
- Selectable Background, border and text colour
- Free user friendly drag and drop control software and firmware update by USB
- SNMP Compatible system
- Space-saving, fanless, energy-efficient and lightweight aluminium design

CBM LCD Monitors by

18,5", 21,5", 23,8", 32" & 42" with Modular build-in Multiviewer

Up to 32 inputs 3G/HD/SD SDI. HDMI. CVBS

LED Backlight Slot & Box system for easy integration 10 bit image processing Low processing delay Compact lightweight rugged design























SPECIFICATIONS

	CBM-185P	CBM-185H	CBM-215H	CBM-238	CBM-320	CBM-420	
Display Size	18,5" LED Backlight	18,5" LED Backlight	21,5" LED Backlight	23,8" LED Backlight	32" LED Backlight	42" LED Backlight	
Resolution	1366 X 768 (16:9)	1920 X 1080 (16:9)	1920 X 1080 (16:9)	1920 X 1080	1920 X 1080	1920 X 1080	
Viewing angle	178,178	178,178	178,178	178,178 (IPS)	178,178	178,178	
Brightness	250 cd/m²	350 cd/m²	250 cd/m²	250 cd/m ²	400 cd/m²	500 cd/m²	
Contrast	1000:1	1000:1	1000:1	1000:1	4000:1	4000:1	
Colour Depth	16.7 Million	16.7 Million	16.7 Million	16.7 Million	16.7 Million	1.7 Bil. (10 Bit)	
Slots	3 (1 1	o connect CBS-3000 Box	and 2 used for input B	oxes)	5 (1 for CBS-3000, 4 used for input Boxes)		
Dimensions	446 x 263 x 91 mm(6U)	446 x 263 x 91 mm(6U)	TBD	550 x 352 x 91 mm	755 x 471 x 105 mm	975 x 590 x 107 mm	
Power supply	TBD	24V	TBD	12V	24V	24V	
Accessories	AC185PS: Stand	AC18PS: Stand	AC215S: Stand	AC238S: Stand	-	-	
	AC17PR: 19" rack	AC18PR: 19" rack	AC215R: 19" rack	AC238R: 19" rack			
	support	support	support	support			
ROADMAP	AVAILABLE	March 2016	March 2016	AVAILABLE	AVAILABLE	AVAILABLE	

When image quality and minimum delay are a must!

- 18.5", 24", 32" and 42" LCD Monitors Grade A panels
- LED Backlight (reduced power consumption)
- Hardware based (NO Pc. NO hard-drive)
- Easy to use modular Multiviewer system
- Up to 32 (3G/HD/SD-SDI, HDMI, CVS) inputs
- Rugged and user friendly Boxes system for easy integration
- Wide viewing angles
- 10 bit image processing engine with low processing
- Quick control: Easy to use keyboard with 11 user configurable direct keys and encoder
- Brightness, Contrast, Saturation adjustment
- Colour temperature adjustment (5600K, 6500K, 9300K and User (R, G, B Gain and Bias adjustment))
- Gamma correction
- Blue Only / Monochrome
- Aspect Ratio Selection (4:3, 16:9)
- Markers and safety areas

- ATC Time code(3G/HD/SD-SDI)
- No audio, Silence, No input and Black image on screen alarms
- Real time colour Waveform (Selectable RGB, R, G, B, YCbCr, Y, Cb, Cr) and Vectorscope per input
- 16 Channel Audio Level Meters (3G/HD/SD-SDI embedded audio) (Vertical or Horizontal)
- NTP and Local Clocks and Timers
- 16 characters UMD and video format information
- Tally and UMD, TSL 3.1 and 5.0 compatible
- Selectable Background, border and text colour
- Free user friendly drag and drop control software and firmware update by USB
- SNMP Compatible system
- Space-saving, fanless, energy-efficient and lightweight aluminium design

CBS Boxes by Bax

3G/HD/SD SDI, HDMI, CVS and Control Boxes



CBS-3000 New Control Box with cascading capability to increase vour system

" All signals you need"

CBS-3000 Control Box with dual output 3G/HD/SD, HDMI & CVS inputs Combinable input Boxes Slot system for easy integration Compact lightweight rugged design





















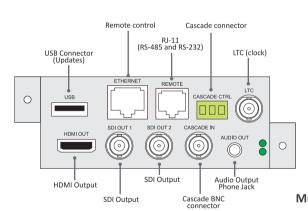
CBS-3000 Control Box

Dual HDSDI outputs & cascading capability. Increase your system!

All Box4Boxes systems must integrate a CBS-3000 control Box (CPU and connectors) and can integrate different input Boxes combining 3G/HD/SD-SDI, HDMI® and CVS signals

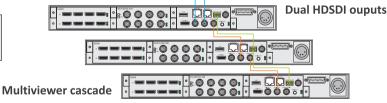
CBS-3000 control Box offers dual HD/SDI outputs and one HDMI output. CBS-3000 integrates an Ethernet connector to control the Multiviewer remotely using our user friendly drag and drop Control Software, and USB connector for upgrades.

The CBS-3000 integrates a cascading capability to increase the number of sources to be displayed in your system. Support 4K format working as a single display combined with a 4 x 3G/HD/SD-SDI input Box.









Control up to 128 inputs in 72 windows

CBS Input Boxes

3G/HD/SD SDI, HDMI and CVS input Boxes





4 x 3G/HD/SD SDI Inputs with active loop through









4 x HDMI Inputs

CBS-CV8 4 x 3G/HD/SD-SDI and

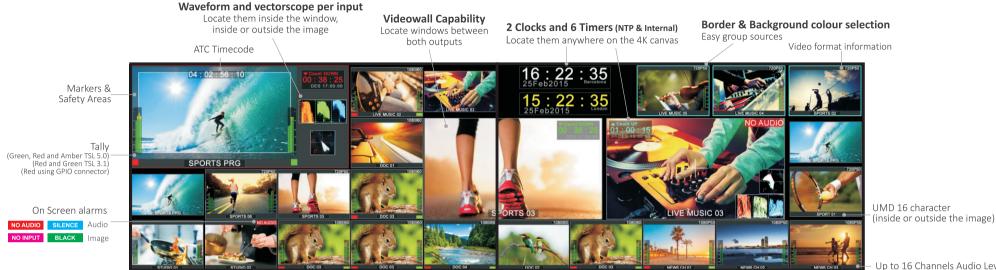


Supported Resolutions:

3G/HD/SDI-SD: 4K, 1080p (60/59.84/50/30/29.97/25/24 /23.98/25sF/24sF/23.98sF), 1080i (60 / 59.94 / 50), 720p (60 / 59.94 / 50), 480i (59.94) 576i (50) HDMI (Not HDCP support): 640x480 (60Hz), 800x600 (60Hz), 1024x768 (60Hz), 1366x768 (60Hz), 720p (50Hz), 1080i (50Hz) Composite Video: 480i (59.94) 576i (50)

Modular Multiviewer Monitors & Video Processors





Up to 16 Channels Audio Level Meters

MONITOR 1 (OUTPUT 1)

MONITOR 2 (OUTPUT 2)

SOFT4BOXES Design & control software



Work Online or Offline, store layouts in your Multiviewers, 2 View Modes to easy drag and drop elements, templates,...

Create your system

All inputs can be displayed on-screen simultaneously in any size and position. Control and customize your layout remotely using our user friendly Control Software (SNMP compatible).

Combine your signals

Combine 3G/HD/SD-SDI, HDMI and Composite Video Signals, with different format and frame rate.

Share your Boxes

Optimize and increase flexibility of your monitoring systems. Same Boxes can be used in our Box4Boxes LCD Monitors or Video Processors.

Replace your Boxes

The B4B Series Modular System offers the opportunity of adding new inputs when you need them, and make service easier.



Multiformat 3G professional LCD monitors

3G SDI / HDMI / CVBS / SFP Modules



1366 x 768 **LED Backlight** 12 bit video processing Wide viewing angles Light weight aluminium design

























Full featured LCD Monitors. Markers, scopes, audio Level Meters...

- 2 x 3G/HD/SD-SDI Autosensing inputs, 1 x HDMI and 1 x CVS
- Optional optical fiber input (SFP module).
- LED Backlight (reduced power consumption)
- 12 bit video processing engine
- Wide viewing angle
- Quick control: Easy to use keyboard with user configurable direct keys and encoder to navigate through OSD menu
- Brightness, Contrast, Saturation adjustment
- Low processing delay
- Aspect Ratio Selection (4:3, 16:9)
- Gamma correction

- Backlight adjustment
- Color temperature adjustment (5600K, 6500K, 9300K and User (R, G, B Gain and Bias adjustment))
- Blue Only / Monochrome
- Markers
- 16 Channels Audio Level Meters
- Stereo Speakers Audio output
- UMD & on screen Tally
- Real time color Waveform and Vectorscope
- Selectable RGB, R. G. B. YCbCr, Y. Cb, Cr waveform
- Selectable transparency of all scopes and Audio Level Meters
- Rugged and lightweight aluminium design

Scopes and features

Audio Level Meters, Waveform, Vectorscope,... and more.



High image quality and all features you need!

SFX-Series is a line of professional LCD Monitors with 3G/HD/SD-SDI, HDMI, CVBS inputs and SFP Module slot for optional optical fiber or IP SMPTE-2022 compliant inputs.SFX-Series integrates our new superior quality 12 bit image processing engine and all the professional features you need.

The LED backlight displays and our energy-efficient board design grant low temperature while working. The rugged and lightweight aluminium design and wide viewing angles displays, makes them easy to integrate.













SPECIFICATIONS	
5. 20	

NO IMAGE

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	CM089SFX-3G	CM185SFX-3G	CM185HSFX-3G	CM215SFX-3G	CM238SFX-3G	CM320SFX-3G	CM420SFX-3G
Display Size	8,9" LED Backlight	18,5" LED Backlight	18,5" LED Backlight	21,5" LED Backlight	23,8" LED Backlight	32" LED Backlight	42" LED Backlight
Resolution	1920 X 1080 (16:9)	1366 X 768	1920 X 1080	1920 X 1080	1920 X 1080	1920 X 1080	1920 X 1080
Viewing angle	176,176	178,178 (IPS)	178,178	178,178 (IPS)	178,178 (IPS)	178,178	178,178
Brightness	400 cd/m ²	250 cd/m ²	350 cd/m²	250 cd/m ²	250 cd/m ²	400 cd/m ²	500 cd/m ²
Contrast	TBD	1000:1	1000:1	1000:1	1000:1	4000:1	4000:1
Colour Depth	16.7 Million (8 Bit)	16.7 Million	16.7 Million	16.7 Million	16.7 Million	16.7 Million (8 Bit)	1.7 Bil. (10 Bit)
/ /							

3G/HD/SD-SDI inputs 2 x BNC with active loop through of each input. **Supported resolutions:** 1080p (60 / 59.84 / 50 / 30/ 29.97 /25 / 24 / 23.98 / 25sF / 24sF/ 23.98sF),

		108	0i (60 / 59.94 / 50), 720p	(60 / 59.94 / 50), 48	301 (59.94), 5761 (50)				
HDMI input	1 HDMI								
CVS input	1xBNC								
Audio IN	Embedded Audio. 16 Channels Audio Level Meters								
Audio out	Analog Stereo (Phone Jack)								
UMD and Tally	On screen tally, and 16 characters UMD								
Remote control	Ethernet								
Chassis		Aluminium. Textured Black Powder Coat							
Dimensions	TBD	TBD 446 x 263 x 75 mm(6U) 446 x 263 x 75 mm(6U) TBD 550 x 352 x 75 mm 755 x 471 x 105 mm 975 x 590 x 107 m							
Power supply	12V	24V	TBD	TBD	12V	24V	24V		
Accessories	AC089FS: Stand	AC185PS: Stand	AC185PS: Stand	AC215S: Stand	AC238S: Stand	-	-		
	AC089FR: 19" rack	AC185PR: 19" rack	AC185PR: 19" rack	AC215R: 19" rack	AC238R: 19" rack				
	support	support	support	support	support				
	support								

ROADMAP May 2016

Quad-Split 3G/HD/SD SDI LCD Monitors

Cost effective and easy to use compact solution



























Full featured Quad-Split LCD Monitors

- LED Backlight LCD Monitors
- Wide Viewing angles
- Build-in Quad Split (4 x 3G/HD/SD-SDI inputs)
- Hardware based (NO Pc, NO hard-drive)
- 10 bit image processing engine with low processing delay
- Quick control: Easy to use keyboard with 11 user configurable direct keys and encoder
- Brightness, Contrast, Saturation adjustment
- Colour temperature adjustment (5600K, 6500K, 9300K and User (R. G. B Gain and Bias adjustment)
- Blue Only / Monochrome
- Aspect Ratio Selection (4:3, 16:9)
- Markers and safety areas

- ATC Time code (3G/HD/SD-SDI)
- No audio, Silence, No input and Black image on screen alarms
- Real time colour Waveform (Selectable RGB, R, G, B, YCbCr, Y, Cb, Cr) and Vectorscope
- 16 Channel Audio Level Meters (embedded audio)
- 16 characters UMD and video format information
- Tally and UMD, TSL 3.1 and 5.0 compatible
- Free user friendly drag and drop control software (SNMP compatible) and firmware update by USB
- Space-saving, fanless, energy-efficient and lightweight aluminium design

Professional Broadcast Quad-Split LCD Monitors

SFX-Series 3G-Quad is a Cost-effective LCD Monitor line with build-in Quad-split (4 x 3G/HD/SD-SDI Autosensing inputs) and 4K Format support. With superior quality 10 bit image processing engine, these Quad-Split Monitors are a space-saving and energy-efficient hardware based (no PC and no hard-drive) solution with low processing delav.

SPECIFICATIONS







March 2016 | March 2016 | AVAILABLE | AVAILABLE | AVAILABLE





ROADMAP

AVAILABLE

CM185PSFX-3G4 CM185HSFX-3G4 CM215SFX-3G4 CM238SFX-3G4 CM320SFX-3G4 CM420SFX-3G4

Display Size	18,5" LED Backlight	18,5" LED Backlight	21,5" LED Backlight	23,8" LED Backlight	32" LED Backlight	42" LED Backlight
Resolution	1366 X 768	1920 X 1080	1920 X 1080	1920 X 1080	1920 X 1080	1920 X 1080
Viewing angle	178,178 (IPS)	178,178	178,178 (IPS)	178,178 (IPS)	178,178	178,178
Brightness	250 cd/m ²	350 cd/m²	250 cd/m ²	250 cd/m ²	400 cd/m²	500 cd/m ²
Contrast	1000:1	1000:1	1000:1	1000:1	4000:1	4000:1
Colour Depth	16.7 Million	16.7 Million	16.7 Million	16.7 Million	16.7 Million (8 Bit)	1.7 Bil. (10 Bit)

3G/HD/SD-SDI inputs 4 x BNC. Supported resolutions: 1080p (60 / 59.84 / 50 / 30/ 29.97 /25 / 24 / 23.98 / 25sF / 24sF/ 23.98sF), 1000; (60 / 50 04 / 50), 7202 (60 / 50 04 / 50), 400; (50 04), 576; (50

		10001 (00 / 33.34	, 30), 720p (00 / 33.	.54 / 50), 4001 (55.54	j, 570i (50j				
Audio IN	Embedded Audio. 16 Channels Audio Level Meters								
Audio out	Analog Stereo (Phone Jack)								
UMD and Tally	On screen tally, and 16 characters UMD								
Remote control	Ethernet								
Chassis	Aluminium. Textured Black Powder Coat								
Dimensions	446 x 263 x 75 mm(6U) 446 x 263 x 75 mm(6U) TBD 550 x 352 x 75 mm 755 x 471 x 105 mm 975 x 590 x 103								
Power supply	24V	TBD	TBD	12V	24V	24V			
••••	AC185PS: Stand	AC185PS: Stand	AC215S: Stand	AC238S: Stand	-	-			
	AC185PR: 19" rack	AC185PR: 19" rack	AC215R: 19" rack	AC238R: 19" rack					
	support	support	support	support					

Scopes and features

Markers, alarms, UMD, scopes,... and more



Real time Waveform and Vectorscope

Screen Configurations

Quad View

Display 4 x 3G/HD/SD SDI inputs on screen

Video format information Full Screen View



Markers and Safety areas

UMD 16 characters

16 Channels Audio Level







PRODUCT CATALOG 2016

Specifications are subject to change without prior notifications

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