

TVONE CORIOMASTER SERIES COMPARISON

olympianled.com



C3-503
CORIOmaster Micro



C3-510
CORIOmaster Mini



C3-540
CORIOmaster

Video Processing Power

Parrallel Processing Architecture	Yes	Yes	Yes
CORIO3 Video Processing	Yes	Yes	Yes
Real Time Video Quality	Yes	Yes	Yes
Up/Down/Cross Conversion	Yes	Yes	Yes
Number of Video walls	x2	x4	x4
Display Size Compensation	Yes, different sizes in video walls		
Output Rotation	Yes for any outputs and windows		
Projector Edge Blending	Yes	Yes	Yes
HDCP Key Handling	Yes	Yes	Yes

Computer Input

Digital DVI via Universal DVI*	up to 4	up to 10	up to 28
Analog via Universal DVI	up to 4	up to 10	up to 28
Analog Format	RGBHV, RGBS, RGsB, YPbPr		
Analog Sync	TTL Level, 10KΩ, Pos or Neg		
RGB Level Range	0.5-2.0 Vp-p		
Scan Rate Detection	Automatic	Automatic	Automatic
Analog Signals	PC to 1920x1080, HD to 1080p60		
DVI Signals	PC to 1920x1200, HD to 1080p60		
Max Horiz Scan Rate	150kHz	150kHz	150kHz

TVONE CORIOMASTER SERIES COMPARISON

olympianled.com



**C3-503
CORIOmaster Micro**



**C3-510
CORIOmaster Mini**



**C3-540
CORIOmaster**

Computer Outputs

DVI-I Signals via DVI-I*	up to 10	up to 10	up to 28
Analog via DVI-I	up to 10	up to 10	up to 28
Analog format	RGBHV, RGBS, RGsB, YPbPr		
R-G-B Level	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p
DVI Signals	PC to 1920x1200, HD to 1080p60 w/EDID		
Analog Signals	PC to 1920x1080, HD to 1080p60		
Size and Position	User Adjustable		
Settings Memory	Non-Volatile	Non-Volatile	Non-Volatile
Conversion Technology	Proprietary – CORIO®3	Proprietary – CORIO®3	Proprietary – CORIO®3
Colour	RGB 24-bit 4:4:4, YPbPr 20-bit 4:2:2, SDI 20 bit 4:2:0		
Max. Sampling Rate	162MHz	162MHz	162MHz
Firmware Memory	Upgradeable via download		
Video Comb Filter	Adaptive	Adaptive	Adaptive
Video Adjustments	Contrast, Brightness, RGB Gamma		

HD Video Resolutions supported (DVI, YPbPr, SDI and HDBaseT)

720p (1280x720)†	23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz
1035i (1920x1035)	59.94, 60Hz
1080i (1920x1080)	50, 59.94, 60Hz
1080p (1920x1080)	23.98, 24, 25, 29.97, 30Hz
1080p (1920x1080)	50, 59.94, 60Hz

TVONE CORIOMASTER SERIES COMPARISON

olympianled.com



C3-503
CORIOmaster Micro



C3-510
CORIOmaster Mini



C3-540
CORIOmaster

4K Video Input Resolutions supported (via HDMI and HDBaseT)

3840x2160 4:4:4	23.98/24/25/29.97/30Hz 8-bit
3840x2160 4:2:0	50/59.94/60Hz 8-bit
4096x2160: 4:2:0	50/59.94/60Hz 8-bit

4K Video Output Resolutions supported (via HDMI)

3840x2160 4:4:4	23.98/24/25/29.97/30Hz 8-bit
-----------------	------------------------------

Video Inputs

Television Standards	NTSC, PAL	NTSC, PAL	NTSC, PAL
Composite Video via DVI	up to 4	up to 10	up to 28
YC (S-Video) via DVI	up to 4	up to 10	up to 28
YUV /YPbPr via DVI	up to 4	up to 10	up to 28
SD-SDI/HD-SDI via BNC	up to 8	up to 16	up to 56
SD-SDI/HD-SDI/3G-SDI via BNC	up to 4	up to 8	up to 28
4K/30 via HDMI & HDBaseT ‡	up to 4	up to 8	up to 28
4K60 via HDMI & HDBaseT ‡	up to 2	up to 8	up to 14
HDBaseT via RJ45	up to 4	up to 8	up to 28

TVONE CORIOMASTER SERIES COMPARISON

olympianled.com



C3-503
CORIOmaster Micro



C3-510
CORIOmaster Mini



C3-540
CORIOmaster

AV over IP

Module cards supported	up to 2	up to 2	up to 4
Interface 1 GbE Ethernet Port	up to 2	up to 2	up to 4
IP Video Decoding	H.264 (CBP, Main, High), H.265/HEVC (Main)		
IP Bit Rates up to 25Mbps per stream	up to 4 streams	up to 4 streams	up to 8 streams
Colour Depth	4:2:0, 4:2:2		
Supported IP Resolutions	Configurable to 1920x1080p60		
Unicast Streams	RTSP, RTMP, HTTP, MPEG-TS		
Multicast Streams	RTSP, MPEG-TS		

Media/Images

Interfaces	USB3.0, Internal Storage, Network		
Video Codecs	H.264 (CBP, Main, High), H.265/HEVC1 (Main)		
Video Formats	.mp4, .mov, .mkv, .m4v, .ts, .mts, .m2ts, .mt2		
Playback Bit Rates	Single stream to 100Mbps (per module), Dual Streams to 40Mbps (per module)		

File Playback Resolutions Supported

Up to 3480x2160@30fps	up to 2	up to 2	up to 4
Up to 1080p60@60fps	up to 2	up to 2	up to 4
Up to 7680 x 4320	Still Images	Still Images	Still Images

TVONE CORIOMASTER SERIES COMPARISON

olympianled.com



C3-503
CORIOmaster Micro



C3-510
CORIOmaster Mini



C3-540
CORIOmaster

Media Handling

External USB 3.0 Interface	up to 2	up to 2	up to 4
Supported devices	Flash file systems FAT, FAT32, ext3, ext4, NTFS		
Internal	High speed storage up 128GB per module		
External	File transfer supported		

Video Outputs

YUV /YPbPr via DVI-I	up to 4	up to 10	up to 28
SD-SDI/HD-SDI/3G-SDI via BNC	up to 4	up to 10	up to 28
HDBaseT via RJ45	up to 4	up to 10	up to 28
HD via HDMI	up to 4	up to 10	up to 56
4K via HDMI	up to 4	up to 10	up to 28

3G/HD/SD-SDI

SMPTE259M-C	270Mbps < 0.1UI jitter		
(SD-SDI Video)	525/625Line	525/625Line	525/625Line
SMPTE292M	1.485/1.4835Gbps < 0.2 UI jitter		
(HD-SDI Video)	720p, 1035i, 1080i, 1080p		
SMPTE424M	2.97/2.967Gbps < 0.3 UI jitter		
(3G-SDI Video)	1080p60/59.94	1080p60/59.94	1080p60/59.94

TVONE CORIOMASTER SERIES COMPARISON

olympianled.com



C3-503
CORIOmaster Micro



C3-510
CORIOmaster Mini



C3-540
CORIOmaster

Still Image Support

Up to 7680x4320

Rendered to 4K

Rendered to 4K

Rendered to 4K

Still Image file

JPEG, PNG, BMP

JPEG, PNG, BMP

JPEG, PNG, BMP

Control Methods

RS-232

via D9 Female Connector

IP Interface

RJ45 Connector

Warranty

Limited Warranty

5 Years Parts and Labour

Regulatory Compliance

Main unit

FCC, CE, RoHS, UL

Dimensions

Size (H x W x D)

1.73" x 8.58" x 9.69"
(44 x 218 x 246mm)

1.77" x 19.0" x 13.25"
(45 x 482 x 336mm)

7.0" x 19.0" x 13.1"
(178 x 482 x 334mm)

Weight (Net)

2.87lb to 3.75lb
(1.3kg to 1.7kg) depending
upon modules fitted

5Kg (11.03 lbs) (with
redundant PSU option)

Approx. 15Kg (33 lbs) (with
redundant PSU option)

TVONE CORIOMASTER SERIES COMPARISON

olympianled.com



C3-503
CORIOmaster Micro



C3-510
CORIOmaster Mini



C3-540
CORIOmaster

Environmental

Operating Temperature	0° to +40° C (+32° to +104° F)
Operating Humidity	10% to 85%, Non-condensing
Storage Temperature	-10° to +70° C (+14° to +158° F)
Storage Humidity	10% to 85%, Non-condensing
MTBF	Approximately 50,000 hours

Power Requirement

Internal Power Supply	110v to 240v auto-detecting		
Redundancy	Optional Internal Hot Swap PSU (C3-540 only)		
Power Consumption	60 watts maximum (fully populated chassis)	125 watts maximum (fully populated chassis)	300 watts maximum (fully populated chassis)
BTU	205 BTU/hr	427 BTU/hr	1024 BTU/hr
Accessories Included	1x Operations Manual 1x Power cable US, UK, Euro or AU Control Software USB Flash Drive & Downloadable from Website		

* HDMI & HDCP compatible

† DVI input module only supports 720p frame rates 50, 59.94 & 60Hz

‡ HDBaseT input capacity is not yet determined

1 Planned update via Firmware, 2 Images will be rendered to 4K, 3 Future Release