



RELEASE NOTES

DigitalMedia

PUF 2.62.00

Product or Content Description

Included Firmware

DigitalMedia™ Switcher Device Name	Device Model Number	Firmware	Min. BL
Switcher main firmware	DM-MD8x8 & DM-MD16x16	4.102.352400038*	339
Switcher operational configuration	DM-MD8x8 & DM-MD16x16	1.0.139*	
Switcher main firmware	DM-MD32x32(-RPS)	4.102.352400038*	339
Switcher operational configuration	DM-MD32x32(-RPS)	1.0.139*	
Switcher main firmware	DM-MD6x1	4.102.245600045	339
Switcher operational configuration	DM-MD6x1	1.0.77	
Switcher front panel main firmware	DM-MD8x8, 16x16, 32x32	2.002.0026	
Switcher front panel application	DM-MD8x8, 16x16, 32x32	1.0.114	
Switcher redundant PSU controller	DM-RPS	1.1498.00021	
Switcher main firmware	DM-MD6x6 & DM-MD6x4	4.102.291100011	339
Switcher operational configuration	DM-MD6x6 & DM-MD6x4	1.0.77	
Switcher front panel application	DM-MD6x6 & DM-MD6x4	1.0.72	
Switcher front panel firmware	DM-MD6x6 & DM-MD6x4	1.1498.00021	

DigitalMedia™ Endpoints Device Name			
4K dual HDMI + RGB 8G+ transmitter	DM-TX-4K-302-C	1.2911.00076*	350*
4K HDMI + RGB 8G+ transmitter	DM-TX-4K-202-C	1.2911.00076*	350*
4K 8G+ single gang transmitter	DM-TX-4K-100-C-1G	1.3209.00023	343
HDMI + RGB 8G+ two gang transmitter	DM-TX-200-C-2G	1.2911.00047	329
HDMI + RGB 8G+ two gang TX FPGA	DM-TX-200-C-2G	19	
HDMI + RGB 8G+ transmitter	DM-TX-201-C	1.2911.00046	329
HDMI + RGB 8G+ transmitter FPGA	DM-TX-201-C	48	
HDMI + DP +RGB 8G+ transmitter	DM-TX-401-C	1.2911.00046	329
4K60 4:4:4 HDR 8G+ room controller	DM-RMC-4KZ-100-C	1.3524.00064*	366*
4K60 4:4:4 HDR 8G+ RMC HDBT RX code	DM-RMC-4KZ-100-C	7.1.19*	
4K 8G+ advanced room controller	DM-RMC-4K-SCALER-C	1.2911.00076*	350*
4K 8G+ advanced room controller DSP code	DM-RMC-4K-SCALER-C	5.5	
4K 8G+ advanced room controller Core	DM-RMC-4K-SCALER-C	3.30.1.169	
4K 8G+ room controller	DM-RMC-4K-100-C	1.2911.00046	329
4K 8G+ single gang room controller	DM-RMC-4K-100-C-1G	1.3209.00023	343
8G+ advanced room controller	DM-RMC-200/SCALER-C	1.2911.00079*	350*
8G+ room controller	DM-RMC-100-C	1.2911.00046	329
HDMI + RGB 8G fiber transmitter	DM-TX-201-S	1.2911.00027	322
HDMI + RGB 8G fiber transmitter FPGA	DM-TX-201-S	64	

* Denotes new or updated firmware compared to PUF 2.61.00.

HDMI + DP +RGB 8G fiber transmitter	DM-TX-401-S	1.2911.00027	322
8G fiber advanced room controller	DM-RMC-200/SCALER-S	1.2625.00028	268
8G fiber advanced room controller	DM-RMC-150-S	1.2456.00045	268
8G fiber advanced room controller FPGA	DM-RMC-150-S	4	
8G fiber room controller	DM-RMC-100-S	1.2456.00045	268
Multi format fiber transmitter	DM-TX-300N-F	1.2456.00045	268
Multi format fiber transmitter FPGA	DM-TX-300N-F	23	
HDMI fiber transmitter	DM-TX-100-F	1.2456.00045	268
Fiber room controller	DM-RMC-100-F	1.1498.00021	268
HDMI + RGB DM-CAT three gang TX	DM-TX-400-3G	1.2625.00028	268
HDMI + RGB DM-CAT three gang TX FPGA	DM-TX-400-3G	7	
Multi format DM-CAT transmitter	DM-TX-300N	1.2625.00013	268
Multi format DM-CAT transmitter FPGA	DM-TX-300N	23	
HDMI + RGB DM-CAT two gang transmitter	DM-TX-200(-2G)	1.2625.00028	105
HDMI + RGB DM-CAT two gang TX FPGA	DM-TX-200(-2G)	41	
HDMI DM-CAT transmitter	DM-TX-100	1.2456.00045	268
DM-CAT single gang transmitter	DM-TX1-1G	1.1498.00021	69
DM-CAT room controller	DM-RMC-100	1.1498.00021	268
DM-CAT single gang room controller	DM-RX1-1G	1.1498.00021	69
DM-CAT repeater	DM-DR	1.1498.00021	69

DigitalMedia™ I/O Cards Device Name

4K60 4:4:4 HDR HDMI input card	DMC-4KZ-HD(-DSP)	1.3524.00064*	366*
4K60 4:4:4 HDR HDMI input card DSP code	DMC-4KZ-HD-DSP	5.5.0*	
4K HDMI input card	DMC-4K-HD(-DSP)	1.2911.00076*	350*
4K HDMI input card DSP code	DMC-4K-HD-DSP	5.5.0	
4K HDMI advanced output card	DMC-4K-HDO	1.2911.00073*	350*
4K HDMI advanced output card Core	DMC-4K-HDO		
4K 8G+ input card	DMC-4K-C(-DSP)	1.2911.00076*	350*
4K 8G+ input card DSP code	DMC-4K-C-DSP	5.5.0	
4K60 4:4:4 HDR 8G+ output card	DMC-4KZ-CO-HD	1.3524.00064*	366*
4K60 4:4:4 HDR 8G+ output card HDBT TX code	DMC-4KZ-CO-HD	7.1.19*	
4K 8G+ output card	DMC-4K-CO-HD	1.2911.00076*	350*
HDMI input card	DMC-HD(-DSP)	1.2911.00057	329
HDMI input card FPGA	DMC-HD(-DSP)	56	
HDMI input card DSP code	DMC-HD-DSP	3.4.5	
HDMI output card	DMC-HDO	1.2761.00017	78
8G+ input card	DMC-C(-DSP)	1.2911.00057	329
8G+ input card FPGA	DMC-C(-DSP)	5	
input card DSP code	DMC-C-DSP	3.4.5	
8G+ output card	DMC-CO-HD	1.2625.00031	268
8G+ output card FPGA	DMC-CO-HD	40	
DVI & RGBHV input card	DMC-DVI	1.2625.00013	268
DVI & RGBHV input card FPGA	DMC-DVI	16	
analog video input card	DMC-VGA	1.2911.00017	322
analog video input card FPGA	DMC-VGA	11	
SDI input card	DMC-SDI	1.2911.00003	322
SDI input card FPGA	DMC-SDI	40	
8G fiber input card	DMC-S/S2(-DSP)	1.2911.00057	329

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8G fiber input card FPGA	DMC-S/S2(-DSP)	3	
8G fiber input card DSP code	DMC-S/S2-DSP	3.4.5	
8G fiber output card	DMC-SO/S2O-HD	1.2911.00020	322
8G fiber output card FPGA1	DMC-SO/S2O-HD	14	
8G fiber output card FPGA2	DMC-SO/S2O-HD	15	
Streaming input card	DMC-STR	1.2911.00043	329
Streaming input codec OS	DMC-STR	1.0002.00026	
Streaming output card	DMC-STRO	1.2911.00043	329
Streaming output card codec	DMC-STRO	1.001.0000	
Streaming output card scaler	DMC-STRO	3	
analog video input cards	DMC-VID-BNC/RCA-A/RCA-D	1.1592.00036	69
security camera input card	DMC-VID4	1.1498.00021	69
fiber input card	DMC-F(-DSP)	1.2456.00045	69
fiber input card FPGA	DMC-F(-DSP)	58	
fiber input card DSP code	DMC-F-DSP	3.4.5	
fiber output card	DMC-FO	1.1498.00021	69
DM-CAT input card	DMC-CAT(-DSP)	1.2456.00031	69
DM-CAT input card FPGA	DMC-CAT(-DSP)	60	
DM-CAT input card DSP code	DMC-CAT-DSP	3.4.5	
DM-CAT output card	DMC-CATO-HD	1.1498.00021	69
DM-CAT output card FPGA	DMC-CATO-HD	39	

Notes and Recommendations

DigitalMedia PUF 2.62.00 is maintenance bug fix release. DigitalMedia PUF 2.62.00 is the first public release to include firmware for the DMC-4KZ-HD/-DSP, DMC-4KZ-CO-HD and DM-RMC-4KZ-100-C.

Important Note:

Please be aware of the following before upgrading/downgrading:

- 1) Special steps must be taken to downgrade DM-MD32x32 CPU cards from DM PUF 2.50 or later to PUF 2.48 or prior. Please see Crestron OLH ID 1285 for details. Other DM products are unaffected.
- 2) Several DM cards have larger firmware files and can take longer to upgrade than other DM products:
 - a. DM-STR: Up to 30 minutes per group of 4 cards.
 - b. DMC-STRO: Up to 17 minutes per group of 4 cards.
- 3) To minimize upgrade time, it is recommended to stop active DMC-STR/STRO streams prior to performing a PUF upgrade.

Recommended Streaming Settings

When pairing the DMC-STR with the DMC-STRO, it is recommended to stream via RTP with initiation by receiver. Previous bandwidth and format restrictions have been removed. Use of TS encapsulation at the DMC-STRO is not recommended due to compatibility issues with many streaming decoders on the market.

With the release of PUF 2.51, the default ports used by the DMC-STRO have changed. Port numbers used in existing installations will not change on firmware upgrade, but they will change on card or system restore. Also, new port numbers applied to systems upgrading from pre-PUF 2.51 code will not be applied until after card restore. Please see OLH 5552 for details.

** Denotes new or updated firmware compared to PUF 2.61.00.*

If the DMC-STR is unable to connect to a third-party encoder (e.g., an IP Camera), re-attempt to connect by adding “?rtsp_tcp=yes” at the end of the URL (without quotations).

System Requirements and Dependencies

Device Database	91.00.002.00
Crestron Database	64.05.001.00
SIMPL Windows	4.08.15.02
Crestron Toolbox	3.01.355.00

Current Version

2.62.00

Date: 2018-2-28

File name

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New Features

- Added support for 4K60 4:4:4 HDR I/O cards and endpoint. Following devices are now supported:
 - o DMC-4KZ-HD(-DSP)
 - o DMC-4KZ-CO-HD
 - o DM-RMC-4KZ-100-C
- Added support for 1080p25/30 resolution for DM-RMC-SCALER/200-C.
- Added HDCP Transmitter mode functionality for the HDMI/DM output of the DM-TX-4K-302/202-C and DM-RMC-4K-SCALER-C endpoints. The feature is only available programmatically.
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Issues Fixed

- Fixed issue with 4K cards/endpoints and Barco Balder Cinemascope where incorrectly parsed EDID capabilities will output bad video.

Known Issues

- When switching upstream, 4K/4KZ outputs may have double audio lock with certain LG/Samsung Blu-Ray players.
- When HDR source is routed to DMC-4K-HDO output card, instead of no video it may output bad video depending on I/O signal video resolution. DMC-4K-HDO output card doesn't support HDR.
- DM-RMC-4KZ-100-C doesn't work with HD-WP-4K-401-C.
- 4K/4KZ DSP input cards do not down-mix DTS:X or Dolby Atmos audio to PCM 2ch audio.
- DMC-4KZ-HD(-DSP) input card setup with DM default 4k 60Hz 2CH/HBR EDID may produce unstable video when connected to certain streaming or Blu-ray players.
- Assigning Global EDID via DM Tool to fully populated DM-MD32x32 chassis may report false failures. Instead assign input EDIDs in batches; 16 inputs at once.
- The DMC-STR may report a resolution of 0x0@0 when streaming from certain third-party IP cameras.
- Apple keyboard does not connect reliably to RMCs.
- All TXs (except TX-401-XX): HDMI audio unreliable with 480i video. All other resolutions are ok.
- On streaming cards, support for elapsed seconds, bitrate and initiator feedbacks have been removed to work around Toolbox stability issues.
- Streaming unsupported audio formats (e.g., G.711) can cause the DMC-STR to lock up. Use AAC audio.

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- Network problems can sometimes cause the DMC-STR to stop decoding a stream. Stop and restart the stream to recover.

Version History

2.61.00

Date: 2017-07-05

File name

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New Features

- DMC-4K-HDO now supports scaling, arbitrary video wall configuration and bezel compensation.
- DM-MD6x4/6x6 now supports programmatic control of the DM-RMC-4K-100-C-1G.
- Added support for applying custom EDID to the input of all the scaler RMCs.
- Added programmatic control to change scaler state for all the scaler RMCs.
- Added programmatic control to enable/disable analog audio output for all applicable RMCs.
- All scaling outputs now support freeze frame switching. 2K scaling products will still have black frame when switching between inputs with different resolutions.

Issues Fixed

- DMC-4K-HDO will report incorrect refresh rate on the output.
- Several DMC-4K-HDO stability issues.
- Fixed issue where DMC-4K-HD-HDCP2 will not pass video from certain 4K HDCP 2 sources.
- Fixed issue where DM-RMC-4K-SCALER-C has color fringe on certain text.
- Added ability to detect input source sync for DM-TX-4K-302/202-C without having to switch to that input.
- Fixed issue where DM-RMC-4K-100-C-1G does not get the DM link after DM-TX-200-C-2G power cycles.
- Fixed color space issue when passing YCbCr 422 source through DM-TX-201-C.
- DMC-SDI input card passes 1080p59.94 resolution.
- Fixed issue where certain HDBaseT projectors were uncommunicative in standby.
- Scaling outputs will release HDCP if input content is non-HDCP and connected sink does not support HDCP.
- Fixed issue where DM-RMC-200/SCALER/100-C endpoints may become unresponsive with excessive serial (RS-232) join traffic for extended time period.

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- Network problems can sometimes cause the DMC-STR to stop decoding a stream. Stop and restart the stream to recover.

[Click here](#) for the *digitalmedia_2.61.00.puf* detailed release notes.

[Click here](#) for the release notes revision history.

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