

Eco Capture Family Driver User Manual

10/01/2019

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Safety Information

Electrical Safety

- When devices are installed, make sure that the computer is turned off before the signal cables are connected. If possible, disconnect all power cables from the computer before adding a device.
- Make sure that your power supply is set to the correct voltage for the supply in your area.
- If you are not sure about the voltage of the electrical outlet you are using, contact your local power company.
- If the power supply is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer. •

Operation Safety

- Before installing devices on your motherboard, carefully read all the manuals that come with the package.
- Before using the product, make sure all cables are correctly connected and the power cables are not damaged. If you detect any damage, contact your dealer immediately.
- To avoid short circuits, keep paper clips, screws, and staples away from connectors, slots, sockets and circuitry.
- Avoid dust, humidity, and extreme temperature. Do not place or use the product in any area where it may be exposed.
- Place the product on a stable surface.
- If you encounter technical problems with the product, contact a qualified service technician or your retailer.

Hardware Installation



Figure 1. Motherboard inside the chassis with capture cards installed



Figure 2. DIP switch

Procedure

- Turn off the computer power and unplug the power cables. 1.
- Remove the chassis cover and locate the M.2 2280 Type M slot(s), as 2. shown in Figure1.
- Plug the video capture card into the slot and make sure it is firmly seated. 3.
- Screw the card onto the rear panel of the chassis. 4.
- If multiple cards are to be installed, we suggest that you set card number 5. of each card before installation. There is a DIP switch on each card marked in binary from 0 to 1111 which enables you to set specific number for each card according to their needs, as shown in Figure 2. After the ID numbers are set, users can install the cards according to steps 3-4.
- Restore the chassis cover. 6.
- For others with analogue inputs, use the included breakout cable to 7. connect the video source and the video capture card.
- Reconnect all the power cables. 8.

Driver Installation

System requirement

- Minimum requirements: CPU Intel Core 2 Duo E7200; RAM 1GB; integrated graphics card; integrated sound card.
- Recommended: CPU Intel Core i7-6800K @ 3.40GHz; RAM 8GB; Graphics Card NVIDIA Quadro M4000.
- Supported Operating Systems:
 - Windows 7 x64/x86
 - Windows 8 x64/x86
 - Windows 8.1 x64/x86
 - Windows 10 x64/x86
 - Windows Server 2008 x64/x86
 - Windows Server 2008 R2
 - Windows Server 2012
 - Windows Server 2012 R2
 - Windows Server 2016

Name	^	Date modified	Туре	Size
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x64		1/11/2019 11:11 PM	File folder	
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🚳 MWCaptureEx	tensionUI.dll	1/11/2019 11:11 PM	Application extens	307 KB
🗟 MWCaptureEx	tensionUI_x64.dll	1/11/2019 11:11 PM	Application extens	366 KB
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🤿 mwprocapture	2	1/11/2019 11:11 PM	Security Catalog	65 KB
📓 MWProCaptur	e	1/11/2019 11:11 PM	Setup Information	131 KB
ReleaseNotes		1/11/2019 11:11 PM	HTML File	7 KB
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 Computer Management (Local) System Tools Task Scheduler Event Viewer Shared Folders Local Users and Groups Performance Device Manager Storage Tokk Management Services and Applications 	 MAGEWELL-SYM Audio inputs and outputs Computer Display adapters Display adapters Human Interface Devices Imaging devices Keyboards Mice and other pointing devices Monitors Monitors Print queues Printers 		Actions Device M Mor	tanager
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 Computer Management (Local) System Tools Task Scheduler Event Viewer Shared Folders Local Users and Groups Performance Device Manager Storage Tokk Management Services and Applications 	 MAGEWELL-SYM MAGEWELL-SYM Computer Disk drives Display adapters Display adapters Human Interface Devices Display adapters Monitors Mice and other pointing devices Monitors Network adapters Print queues Print queues Printers Software devices Software devices Software devices Q2 Ecc Capture HDMI 4K M.2 Realtek High Definition Audio WSE Capture HDMI 4K 		Actions Device M Mor	lanager 🔺 re Actions 🔸
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 Computer Management (Local) System Tools Task Scheduler Event Viewer Shared Folders Local Users and Groups Performance Device Manager Storage Storage Services and Applications 	 MAGEWELL-SYM Audio inputs and outputs Computer Display adapters Human Interface Devices Imaging devices Imaging devices Monitors Monitors Printers Printers Software devices Software devices Software devices USB Capture HDMI + Kin.2 USB Capture HDMI + Mic System devices System devices 		Actions Device M Mor	tanager
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Driver Installation and Uninstallation

Driver Installation Procedure

- Choose MWDriverInstaller according to your OS to install the driver. 1.
- To confirm whether the installation is successful. 2.
 - i. Open Device Manager > Sound, video and game controllers, and then check if your capture card model(s) are shown in the list of installed devices.

In the device list, you can see all the capture cards that are installed in this computer. The number before the Eco Capture card name is the ID (E.g. 00 or 04 in the example), which is set via the rotary switch on the card. For multi-channel cards, the channel number will be added after the ID number. (E.g. 04-0, 04-1, 04-2, 04-3 for a Quad card)

i. Choose a capture device and right click **Properties > Driver**. Check the version of the current driver. If it is the same as the installed driver version, the installation has been successful.

Driver Uninstallation Procedure

- Open Device Manager > Sound, video and game controllers. 1.
- Search magewell, and then uninstall Eco Capture driver. 2.
- To confirm whether the uninstallation was successful. 3.
 - i. Open Device Manager > Sound, video and game controllers.
 - ii. Check that your capture card model(s) are removed from the list of installed devices.

Settings

The attributes of the Eco Capture Card can be modified in the card driver control panel. You can access the driver control panel via a third-party video capture software, e.g. AMCap or OBS. The parameters are as follows.

Na Fa Pro	ame milu namo			1				
Fa Pro	mily name			Value				
Pro	milly name			Eco Capture				
Fin	oduct name	e		Eco Capture HDN	4I 4K M.2			
	mware nar	ne		Standard Edition				
Se	rial numbe	r		A152170726001				
Ha	ardware ve	rsion		Α				
Fin	mware ver	sion		1.5				
Dri	iver versio	n		1.3.3999				
Bo	ard index			2				
Ch	nannel inde	x		0				
Device instance ID				PCI\VEN_1CD7&DEV_0052&SUBSYS_00200001				
PCIe address				Bus 6, Devcie 0				
PC	Ie speed			Gen 2				
PC	Ie width			x4				
PC	Ie max pa	yload size		128 Bytes				
PC	le max rea	ad reques	t size	256 Bytes				
То	tal memory	y size		0 Bytes				
Fre	ee memory	size		0 Bytes				
Ma	ax input din	nension		4096x4096 Pixels				
Ma	ax output d	limension		4096x4096 Pixels				
Co	ore tempera	ature		76.5 deg C				
<						>		

Info

Item	Item Description
Family name	Shows the name of the produ Capture).
Product name	Shows the name of this specifi
Firmware name	Shows the name of the firmwa
Serial number	Shows the serial number.
Hardware version	Shows the hardware version o
Firmware version	Shows the firmware version cu
Driver version	Shows the driver version curre
Board index	Shows the board ID number, a from 0 to F. Set via a rotary sw will be 0 for a mini card.
Channel index	Shows the zero-based channed for a single channel card; 0/1 card; 0/1/2/3 for a quad chan

uct family (Eco fic product. are. of this product. urrently installed. ently in use. a hexadecimal value witch on the card. It el number. It will be 0 for a dual channel nnel card.

Item	Item Description			
Device instance ID	The key value can be found in Registry\Computer\HKEY_LOC \SYSTEM\CurrentControlSet\S			
PCIe address	Shows the PCIe bus number a			
PCIe speed	Shows the PCIe bus speed (e.g			
PCIe width	Shows the PCIe bus bandwidt x4).			
PCIe max payload size	Shows the max length of valid			
PCIe max read request size	Shows the max size of PCIe bu			
Total memory size	Shows the current onboard m Eco Capture card is not equip			
Free memory size	Shows the currently unused m Eco Capture card is not equip			
Max input dimension	Shows the max video input re			
Max output dimension	Shows the max video output r			
Core temperature	Shows the current temperatur			

n the registry at:

CAL_MACHINE

Services\EcoCapture.

and device number.

.g. Gen1, Gen 2).

th (options are x1, x2,

PCIe bus data.

ous read request.

nemory size. Note that oped with a memory.

nemory size. Note that

pped with a memory.

esolution.

resolution.

re of FPGA chip core.

Propertie	es -								×
Video	HDMI	Info	Input	Video Dec	oder	Video I	Proc Amp		
EDIC)								
00 10 20 30 40 50 50 80 80 80	0: 00 0: 01 0: 0F 0: 83 0: 45 0: 30 0: 72 0: 72 0: 00 0: 02	FF FF 19 01 50 54 00 D1 20 36 6F 20 19 78 03 2F	FF FF 03 80 FF FF C0 D1 8E 21 00 C4 43 61 0C 78 71 50	FF FF 30 1B 80 81 00 F3 00 00 8E 21 70 74 11 00 01 02	00 78 C0 39 1A 00 75 0A 03	34 F7 07 E8 81 00 80 18 28 30 00 18 72 69 20 20 04 09	7 00 E1 E 95 A3 0 81 40 8 71 38 C 80 A0 E 00 00 5 0A 20 0 20 20 5 90 11	4E 54 95 2D 70 00 20 12 >	
			F	leset	l	Load	Sa	ve	
AVI	Aud	io SPD	MS	VS	ACP	ISR	C1 ISRC2	2 Gi ◀ ▶	
CI	T Versi Leng hecks Data Data	ype: 0 on: 0x th: 13 um: 0x 00: 50 08: 00	x82 02 Bytes 67 (OM A8 00 00 00	;) 10 00 00 00	00	00 0	D	< >	
			ОК	Cance	el	A	pply	Help	

HDMI

When the capture card has one or more HDMI interface(s), the HDMI tab will be available in the control panel.

Item Name	Item Description
EDID	Standard data in VESA format supplier's information, max re- settings, manufacturer's prese name of monitor and string or
Reset	Resets the current EDID to the
Load	Loads a local EDID file.
Save	Saves the current EDID.
AVI	Shows type, version and verify stream and the verification res
Audio	Shows the type, version and v stream and the verification res
SPD, MS, VS, ACP, ISRC1, ISRC2, Gamut, VBI, HDR	Show information of the HDM

t. It shows the esolution, color et, frequency range, of serial number. e default one. y bit of the video sult. verify bit of the audio sult. /II InfoFrame.

Properties

Video HDMI Info	Input Video Decoder Video Proc Amp
Input - (1920x1080	p)
Aspect ratio:	16 💌 : 9 💌
Color format:	YUV BT.709 ~
Quantization:	Limited range (16-235) \lor
Capture Preview	
Output format:	1920x1080, 60.01 fps, BGRX 32Bits
Aspect ratio:	16 🔺 : 9 🔺 🗌 Low latency mode
Crop input:	0 ▲ , 0 ▲ - 1920 ▲ , 1080 ▲
Color format:	RGB \checkmark
Quantization:	Full range (0-255) V
Saturation:	Full range (0-255) V
Deinterlace:	Blend top & bottom field $\qquad \lor$
AR conversion:	Ignore \checkmark
	Load preset Save preset
_	
	OK Cancel Apply Help

Video

Х

By default, **Input** shows the input information extracted from the signal. If a non-standard signal is incorrectly recognized by the capture device, users can manually adjust the parameters.

Item Name	Item Description
Input	Shows the resolution of the corresolution of the input video so display will also change
Aspect ratio	Shows the aspect ratio of the box is ticked (The shortcut key users can adjust the aspect ra arrows (Shortcuts are up and Eco Capture does not suppor
Color format	Shows the color space of the box is ticked, other color space from the drop-down list (The Enter key).
Quantization	If the box is ticked, the quanti range and Limited range car

current input. When the stream is changed, this

e current input. If the ey is the Space key), atio by clicking on the down arrow keys). rt this function.

e current input. If the ces can be chosen e shortcut key is the

tization values of **Full** an be chosen.

Preview/Capture

Item Name	Item Description
Output format	Shows the current resolution, frame rate and color space of the previewed video. When the settings of this stream are changed, the data here will be changed accordingly.
Aspect ratio	Shows the aspect ratio of the current output. Eco Capture does not support this function.
Low latency mode	The latency will be reduced when low latency mode is chosen. It can be very useful and the benefit is obvious in video conferencing. Low latency function is enabled on the Eco Capture cards and can not be disabled.
Crop input	Adjusts the captured pixel area from the input video by cropping the edges, using X/Y pixel values for top/left and bottom/right. Eco Capture does not support this function.
Color format	Shows the color space for capturing. If the box is ticked, other color spaces can be chosen.
Quantization	Users can choose Full range or Limited range.
Saturation	Shows the grades of saturation of the input signal. Options are Full range, Limited range and Extended GAMUT range.
Deinterlace	 The range of values: Weave: Combines the top field and bottom field into a frame without any other process. Usually used to capture the original data. Blend top & bottom field: Merges two fields together and deinterlaces via FPGA to ensure a CPU-free video processing. Top field only: Copy the top field data in vertical direction as a full frame. Bottom field only: Copy the bottom field data in vertical direction as a full frame. Deinterlacing is a process of converting interlaced video into a non-interlaced form, and half size the frames after processing. For example, the input signal is a 60 field/s interlace signal, the device delivers a 30 FPS progressive signal after processing.
AR conversion	 Aspect Ratio conversion mode options include: Ignore: Ignore the original aspect ratio and stretch to full-screen. Cropping: Expand to full-screen and remove parts of the image when necessary to keep the original aspect ratio. Padding: Fit to screen and add black borders to keep the original aspect ratio.
Load preset	Loads the saved presets.
Save preset	Saves the current settings as presets.

Properties											×	
۷	/ide	0	HDMI	Info	Input	Video De	coder	Video	Proc Amp			
Video input: HDMI input 0					1I input 0			\sim	Auto	scan		
Audio input: HDMI input 0						\sim	🗹 Link w	vith video				
	V	ide	o signal s	status	Audio sign	al status	Input	specific	status			
	١	Na	ame			Value						
	н	Sic	gnal stati	JS		Locked						
	H	Re	esolution			1920x1	080p, 6	50.01H	z			
	H	As	pect rati	0		16:9	16:9					
	H	То	tal scan	size		2200x1125 Pixels						
		Ac	tive area	a offset	t	X: 192, Y: 41						
		Co	olor forma	at		YUV BT.	YUV BT. 709					
		Q	uantizatio	on rang	e	Limited	Limited range (16-235)					
	Saturation range			Limited	range (16-235)					
	H											
		<								>		
		_										
					ОК	Can	cel	ŀ	Apply	Help		
					3				11.0			

Input

Item Name	Item Description
Auto scan	Automatically scans the input s the box is unticked, users can input signal.
Link with video	Automatically scans for an auc in the video signal by default. I changed, the audio signal will changed to try to match the vi is unticked, users can manually signal.

signals by default. If manually select the

dio signal embedded If the video signal is I automatically be video signal. If the box Iy select the audio

Video signal status

Item Name	Item Description
Signal status	Shows the video input signal information parsed by the device, shown as Locked, Unsupported, Not Present.
Resolution	Shows resolution and frame rate of the input video. If the input signal changes, this display will be changed accordingly.
Aspect ratio	Shows the aspect ratio of input video source.
Total scan size	Shows the total scanned pixel area.
Active area offset	Shows the current horizontal and vertical offset of the active signal within the total area scanned.
Color format	Shows the chosen color space of the video signal.
Quantization range	Shows the luminance quantization range Options: Full range (e.g. 0-255) or Limited range (e.g. 16-235 - for 8-bit inputs).
Saturation range	Shows the saturation of the input signal. Options are Full range, Limited range or Extended GAMUT range.

Propert	ies								\times
Video	HDMI	Info	Input	Video De	coder	Video I	Proc Amp		
Video input: HDMI input 0 Audio input: HDMI input 0		1I input 0			\sim	Auto	scan		
		1I input 0			\sim	🗹 Link w	ith video		
Vid	eo signal s	tatus	Audio sign	al status	Input	specific	status		
N	lame			Value					1
4	Audio forma	at		48000 H	Hz, 16 B	lits, LPC	M		
0	Channel 1 8	<u>8</u> 2		Present					
0	Channel 3 8	<u>8</u> 4		Not pre	sent				
C	Channel 5 8	\$6		Not pre	sent				
Channel 7 & 8			Not pre	esent					
C	Channel sta	atus da	ta	00 01 0	0 02 00	00 00 0	0 00 00 00	0 00 00 00	
<	C							>	
		_				_			
			ОК	Can	cel	A	pply	Help)

Audio signal status

Item Name	Item Description
Audio format	Shows the sampling frequency format of the current audio.
Channels 1&2 Channels 3&4 Channels 5&6 Channels 7&8	Shows the current audio stream channel pair. Options are Pres NOTE: These values only indicate audio signal channels, and are of audio signal levels. An audio shown as Present even if no act being received. The analogue
	connected.

y, bit depth and

m status for each sent or Not present. ate the presence of e in no way indicative o channel can be actual audio data is line input will always een no audio cable is

Properties							×
Video HDMI Info	Input	Video Dec	oder	Video I	Proc Amp		
Video input: HD	MI input 0			\sim	🗹 Auto	scan	
Audio input: HDI	MI input 0			\sim	∠ Link	with vide	0
Video signal status	Audio sign	al status	Input s	specific	status		
Name		Value					^
Signal status		Present					
Mode		HDMI					
HDCP encrypted		No					
Color depth		8 Bits					
Pixel encoding		Y/U/V 4:4	Y/U/V 4:4:4				
VIC	16						
IT content		False					
Timing - scanning	format	Progressi	ive				
Timing - frame ra	te	60.01 Hz					
Timing - H total		2200 Pixe	els				
Timing - H active		1920 Pixe	els				
Timing - H front p	orch	88 Pixels					
Timing - H sync width		44 Pixels					
Timing - H back p	148 Pixel	s					
Timing - V total		1125 Line	es				
Timing Machivo		1000 Linz	-			>	*
	OK	Canc	el	A	pply	He	elp

• When HDMI signal is connected, the **Input specific status** tab is as follows:

Item Name	Item Description
Signal status	Options are Present or Not p
Mode	Shows input signal mode.
HDCP encrypted	Shows whether the signal is H Options are Yes or No .
Color depth	Shows the color depth of the Common values are 8 bit , 10
Pixel encoding	Shows pixel encoding, e.g. R/0
VIC	Standard video identification of
IT content	If True, pictures are compress common IT practice, or partic derived from IT practice.
Timing-scanning format	Shows the scan format, e.g. P Interlaced.
Timing-frame rate	Shows the current frame rate.
Timing-H total	Shows total horizontal pixels o
Timing-H active	Shows active horizontal pictur
Timing-H front porch	Shows pixel width between th horizontal picture and the star sync pulse.

present.

IDCP encrypted.

current video.

bit and 12 bit.

G/B, Y/U/V, Y/Cb/Cr.

code.

sed according to

cular requirements

Progressive,

captured.

re width.

ne end of the active

art of the horizontal

Item Name	Item Description
Timing-H sync width	Shows width of the horizontal
Timing-H back porch	Shows pixel width between th horizontal sync pulse and the active horizontal picture line.
Timing-V total	Shows total vertical pixels (i.e. captured.
Timing-V active	Shows active vertical picture h
Timing-V front porch	Shows number of lines betwee active vertical picture area and vertical sync pulse.
Timing-V sync width	Shows width of the vertical sy
Timing-V back porch	Shows number of lines betwee vertical sync pulse and the sta horizontal picture line.

NOTE: When the input video signal is in interlaced format, the table will include information for each field separately (Field-0 and Field-1) in the vertical direction.

l sync pulse.

ne end of the e start of the next

Picture lines)

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nc pulse, in lines.

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art of the next active

Properties

Video	HDMI	Info	Input	Video Decoder	Video Proc Amp
Video inpu	ut: SDI i	nput 0		~ AL	ito scan
Audio inpu	ut: Line	input 0		∼ 🗌 Lir	k with video
Video sig	gnal status	Audio signa	status Inpu	ut specific status	
Name			Value		
Signal	status		Present		
Type			3G-B dual link	c	
Scann	ing format		Interlaced		
Color	depth		10 Bits		
Sampl	ing struct		Y/Cb/Cr/A, 4	:4:4:4	
ST352	2 payload ID		8A 07 05 01		
<					>
		ОК	Cancel	Apply	Help

 \times

• When SDI signal is connected, the **Input specific status** tab is as follows:

Item Name	Item Description
Signal status	Options are Present or Not p
Туре	Shows the current video signa
Scanning format	Options are Progressive , Inte Frame.
Color depth	Shows the color depth of the 10/12 bit.
Sampling structure	Shows signal type and sampling
ST352 payload ID	Shows the current video form format, aspect ratio.

present.

al type.

erlaced, Segmented

current video, e.g.

ing ratios.

nat of SDI, e.g. color

Properties		\times
Stream		
Output		
Color Space:	YUY2 ~	
Image Size:	1920 X 1080 Presets >	
Frame Rate:	59.97 FPS Presets >	
	OK Cancel Apply	

Output

	Item Name	Item Description
	Color Space	Select from drop-down list ma color space.
	Image Size	Enter manually or click Presets those listed. The value shown i preferred value.
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Support

Get the Latest Information

If you have any problems using Magewell products or need more technical information, please visit the following.

- Tutorial video: https://www.magewell.com/tv
- YouTube channel: Magewell Video Capture Device
- Knowledge base: https://www.magewell.com/kb/eco-capture
- Official website: https://www.magewell.com/capture/eco-capture

Technical Support

Contact the Magewell Technical Support Team at support@magewell.net.

Warranty

Limited Warranty

Except otherwise set between you and Magewell in advance in a written form, the free limited warranty service starts from the date on your proof of purchase. The proof can be: sales contract, formal sales receipt, invoice or delivery note. The earliest date of these proofs is the starting date of the free limited warranty. The period of free limited warranty goes as below:

- Eco Capture: two (2) years;
- The breakout cables provided as accessories: one (1) year;

How to get the limited warranty

- 1. Please contact the Magewell support team by email (support@magewell.net) first, to determine whether your problem can only be solved by returning it to Magewell for repair. Magewell might ask you to take photos of the front and back of the defective products.
- Magewell will issue an RMA letter to you if it is confirmed that you need to return the faulty product for further examination or repair. Please fill in the RMA with 2. necessary information as required.

If it is regular repair, you will be responsible for the shipping cost, duties and insurance cost (if applicable); if the product is DOA, Magewell will be responsible for the shipping cost.

- If some components need to be replaced, Magewell will decide to repair, renovate or replace the components by itself. Magewell may use new or repaired 3. component to repair the product. The repaired product can be expected to work normally and the performance to remain the same. Repaired products can work in a good working condition and at least function the same as the original unit. The original replaced component will become the property of Magewell and components which are replaced for the client will become his/her property.
- 4. If the product is within warranty, Magewell will repair or replace the faulty units at its own discretion. In circumstances where the faulty unit is replaced by another one, Magewell may use new, repaired or renovated units. The faulty unit will then become the property of Magewell while the replacement unit will become the property of the purchaser.
- If the warranty expires, Magewell will inform the purchaser whether the products can be repaired and the maintenance costs they need to pay. If purchasers 5. decide to repair, Magewell will repair, renovate, or replace the components after receiving the maintenance costs. If purchasers give up repairing, Magewell will

dispose of the faulty unit if the purchaser chooses that option.

- The repaired or replaced product assumes 1) the remaining term of the Warranty of the replaced unit or faulty unit; 2) ninety (90) days from the date of 6. replacement or repair, whichever provides longer coverage for you. The extended warranty is only valid for repaired/replaced components.
- 7. The period of service depends on the client's location (country and area) and the product.

To view the complete warranty policy, please visit www.magewell.com/quality-assurance.