



ΜΛGEWELL[™]

Pro Capture

Video Capture Card Driver

User Manual

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Content

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1.Safety information

1.1 Electrical safety

1.1.1 When devices are added to or removed from the system, ensure that the computer is turned off before the signal cables are connected. If possible, disconnect all power cables from the computer before you add a device.

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- 1.1.2Make sure that your power supply is set to the correct voltage for the supply in your area.
- 1.1.3If you are not sure about the voltage of the electrical outlet you are using, contact your local power company.
- 1.1.4If the power supply is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer.

1.2 Operation safety

- 1.2.1 Before installing devices on your motherboard, carefully read all the manuals that came with the package.
- 1.2.2Before 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.
- 1.2.3To avoid short circuits, keep paper clips, screws, and staples away from connectors, slots, sockets and circuitry.
- 1.2.4Avoid dust, humidity, and extreme temperature. Do not place the product in any area where it may be exposed to moisture.
- 1.2.5 Place the product on a stable surface.
- 1.2.6 If you encounter technical problems with the product, contact a qualified service technician or your retailer.

2. Video Capture Card Hardware Installation

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Steps :

- 1. Please turn off the computer power and unplug the power cable.
- 2. Remove the chassis cover and locate the PCI Express slot(s).

(Sample Motherboard inside the chassis :)



- 3. Move the retaining clip to the "open" position (usually by pushing down on it) on the PCIe slot into which you are going to insert the card.
- 4. Plug the Video Capture Card into the slot and make sure it is firmly seated. (*Motherboard inside the chassis with capture cards installed*)



- 5. Use a screw to attach the card to the rear panel of the chassis.
- 6. If multiple cards are to be installed, it is advisable to set the ID number of each card before installation. There is a rotary switch on each card marked in hexadecimal from 0 to F. Users should set a different number for each card according to their needs. After the ID numbers are set, users can install the cards according to Steps 3-5.



- 7. Replace the chassis cover.
- 8. For DVI cards and others with analogue inputs, use the included breakout cable to go between the video source and the connector on the Capture Card itself.

9. Reconnect all the power cables.

3. Video Capture Card driver installation

3.1 System requirement

- a. **Minimum requirements :** CPU Intel Core 2 Duo E7200; RAM 1GB; integrated graphics card; integrated sound card.
- B. Recommended : CPU Intel Core 2 Quad Q6600; RAM 2GB; Graphics Card Intel HD Graphics 3000.
- c. Supported Operating Systems : Windows 7 / Windows 8 / Windows 8.1 / Windows 2008 / Windows 10

3.2 Driver installation and uninstallation

Driver installation guide :

1. Open the driver installations source folder. Based on the current operating system, choose the applicable program. (MWCaptureInstaller.exe for 32bit systems or MWCaptureInstaller_x64.exe for 64bit systems)

	Resources	10/28/2016 4:30 PM	File folder	
	x64	10/28/2016 4:30 PM	File folder	
	x86	10/28/2016 4:30 PM	File folder	
3	MWCaptureExtension.dll	10/28/2016 4:24 PM	Application extens	243 KB
٩	MWCaptureExtension_x64.dll	10/28/2016 4:25 PM	Application extens	279 KB
٩	MWCaptureExtensionUI.dll	10/28/2016 4:24 PM	Application extens	277 KB
٩	MWCaptureExtensionUI_x64.dll	10/28/2016 4:25 PM	Application extens	341 KB
	MWCaptureInstaller	10/28/2016 4:26 PM	Application	90 KB
a	MWCaptureInstaller	10/28/2016 4:22 PM	Configuration sett	1 KB
	MWCaptureInstaller_x64	10/28/2016 4:26 PM	Application	96 KB
9	mwprocapture	10/28/2016 4:26 PM	Security Catalog	57 KB
	MWProCapture	10/28/2016 4:24 PM	Setup Information	99 KB
0	ReleaseNotes	10/28/2016 4:25 PM	QQBrowser HTML	5 KB
J	ReleaseNotes	10/28/2016 4:25 PM	WPS PDF 文档	18 KB

2. Double click on the selected installer to run it and the window below will appear.



3. After the installation has finished, a notification will appear to show if the installation was successful.

Magewell Pro Capture Driver Installer
Setup successful!
ОК

4 . Click "OK" to finish the installation.

5. To confirm whether the installation was successful, right click "My Computer" and select Management -> Device Manager -> Sound, video and game controllers -> and then check that your capture card model(s) are shown in the list of installed devices



In the device list above, you can see all the capture cards that are installed in this computer. The number before the Pro Capture card name is the ID number of the card. (Eg. 00 or 04 in the example above.) This is the number set via the rotary switch on the card. For multi-channel cards, the channel number will be added after the ID number of

the card. (Eg. 04-0 , 04-1 , 04-2 , 04-3 for a Quad card)

d.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, the installation has been successful.

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Driver uninstallation :

- 1 . Right click "My Computer" and select Management->Device Manager->Sound, video and game controllers -> {capture card model}
- 2. Right click on the card name and choose Uninstall
- 3 . Click Delete driver and Confirm to finish the uninstall process.

4. Settings

4.1 Info

		Properties		
Input Vide		deo Decoder	Video	Proc Amp
OSD	Timing	HDMI	Video	Info
Name		Value		
Family name		Pro Capture		
Product name	2	Pro Capture AIO		
Firmware nan	ne	High Performance	e Firmware	
Serial number		B102141231101		
Hardware ver	rsion	в		
Firmware ver	sion	1.17		
Driver version	ı	1.2.1379		
Board index		0		
Channel inde:	x	0		
Device instan	ce ID	PCI\VEN_1CD78	DEV_0002&SUBS	SYS_00000001
PCIe address		Bus 2, Devcie 0		
PCIe speed		Gen 1		
PCIe width		x1		
PCIe max pay	/load size	128 Bytes		
PCIe max rea	d request size	256 Bytes		
Total memory	size	268435456 Bytes	s	
Free memory	size	74715136 Bytes		
Max input dim	nension	2048x2048 Pixels	5	
Max output d	imension	2048x2048 Pixels	5	
Core tempera	ature	80.2 deg C		
		_		
< .				,
	ОК	Cancel	Apply	Help

Item	Item Description			
Family name	Name of the product family (Pro Capture)			
Product name	Name of this specific product			
Firmware name	Name of the firmware			
Serial number	Serial number			
Hardware version	Hardware version of this product			
Firmware version	Firmware version currently installed			
Driver version	Driver version currently in use			
Board index	Board ID number, a hexadecimal value from 0 to F. Set via a			
	rotary switch on the card, as described in section 2.6.			
Channel index	The zero-based channel number. It will be 0 for a single			
	channel card. The number can be 1 or 2 for a dual channel			
	card; 1, 2, 3 or 4 for a quad channel card.			
Device instance ID	Device instance ID. The key value can be found in the registry			
	at location : Registry\Computer\HKEY LOCAL			
	MACHINE\SYSTEM\CurrentControlSet\services\Procapture			
PCIe address	Shows Bus number and Device number			
PCIe speed	Bus speed (eg Gen1, Gen 2)			
PCIe width	Bus bandwidth (options are x1, x2, x4, x8, x16)			
PCIe max payload	Max length of valid bus data			
size				
PCIe max read	Max size of read request			
request size				
Total memory size	Current onboard memory size (eg 256MB)			
Free memory size				
Max input dimension	Max video input resolution			
Max output	Max video output resolution			
dimension				
Core temperature	Current temperature of FPGA chip core			

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4. 2 "Timing" tab

Note: When the capture card in use has a YUV component or VGA capture interface, this Timing tab will be shown. See the picture below.

Input	Vide	o Decoder	Video	Proc Amp
OSD	Timing	HDMI	Video	Info
Auto adjustmen	t		Phase	
 Auto sampli 	ng phase		Phase:	8 *
✔ Auto horzio	ntal alignment		Auto pha	ise adjust
djust timing	Custom timings	Custom GTF/C	VT resolutions	
N/A			Preferred	timings >
Hactive:	<		>	N/A
H total:	<		>	N/A
H offset:	<		>	N/A
Vactive:	<		>	N/A
V offset:	<		>	N/A
Clamp position:	<		>	N/A
Aspect ratio:	4 🔺 :	3 *		
		Reset timing	Save as cu	stom timing

Item Name	Item Description
Auto sampling	Ticked by default. The capture will automatically make slight
phase	adjustments to the video to achieve optimum clarity.
Auto horizontal	Ticked by default. The card automatically makes adjustments to
alignment	try to attain the correct horizontal position of the video.
Phase	Manual and automatic adjustments are possible. The range is
	0-63.
Adjust timing	The current resolution and frame rate will be shown
	automatically. If they don't appear to be correct, the user can
	click "Reset timing". If the auto-detected timings are
	unsatisfactory, untick the "Auto adjustment" boxes above and
	then manually adjust any of the settings as required. Click
	"Save as custom timing" to save the new settings for future use
	when capturing the same signal again. Click "Reset timing" to
	restore the default settings.
	NOTE: If you wish to abandon an attempt to create manual

	settings, and revert to using "Auto" settings, you must first click the "Reset timing" button before ticking the "Auto" settings box(es), or else you will remain in manual mode.
H offset	Increase the value to move the image left
V offset	Increase the value to move the image upwards

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		Propert	ies		
Input	Vid	leo Decoder		Video	Proc Amp
OSD	Timing	HDMI		Video	Info
Auto adjustme Auto samp Auto horz	ent oling phase iontal alignment	t		Phase Phase: Auto ph	8 ×
Adjust timing	Custom timing	s Custom G	TF/CV	resolutions	
Mada	Te	atal acan	Supe	signal	
					Delete

Item Name	Item Description
Custom timings	This shows the chosen setting in "Adjust timing", including
	resolution, frame rate, pixel sampling, and
	synchronization method. When the same video signal is
	connected again, the card will automatically show the
	video according to the previously saved setting. If the
	user wants to delete the past setting(s), they can choose
	the setting in "Custom timings" and click "Delete".

		Properties				
Input	Vide	o Decoder	Video	Proc Amp		
OSD	Timing	HDMI	Video	Info		
uto adjustme	ent		Phase			
 Auto samp 	pling phase		Phase:	8		
 Auto horz 	iontal alignment		Auto pha	ise adjust		
djust timing	Custom timings	Custom GTF/C	/T resolutions			
Resolutions						
1200x1100						
	Ad	ld Mo	difiy	Delete		

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Item Name	Item Description
Custom GTF/CVT	If adjustments made in the "Timing Adjustment " tab
resolutions	cannot achieve satisfactory results, users can manually a
	the resolution that meets GTF or CVT standards.

To add a new resolution :

• Click "Add" and input a valid Width and Height, or "Modify" to change existing values.

	Res	olutio	on	X
Width:		768		
Height:		576		
	OK		Cancel	



4. 3 "OSD" tab

		Properties			×
Input	Vide	eo Decoder	Video I	Proc Amp	
OSD	Timing	HDMI	Video	Info]
Capture Preview	v			1	
MAGEWELL	5				
	The	Magewell's new Pro	Capture Series is no vers superior performance, r	w shipping!	
	and an i	ntuitive user experience. Please	visit www.magewell.com for m	tore information.	
OSD file path (PN	IG RGBA file):	-			
C: Windows Pro	Capture (OSL)Example.png			
Enable OSD		Loa	d preset Sav	ve preset	
[ОК	Cancel	Apply	Help	

An image with transparency (ie. alpha channel) can by overlaid on the incoming video by using the OnScreenDisplay (OSD) function. Browse to select a suitable 32bit PNG image to use for the OSD. Click "Enable OSD" to activate the overlay. Click "Save preset" to save the current image/path as a template. Users can click "Load preset" to load a previously saved image.

4. 4 "HDMI" tab

Note : When the capture card has one or more HDMI interface(s), the "HDMI" tab will be available in the control panel. See the picture below.

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	Propertie	S	×
Input	Video Decoder	Video	Proc Amp
OSD	Timing HDMI	Video	Info
EDID			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	FF FF FF FF FF FF FF FF 101 103 80 30 118 105	00 34 F7 00 1 78 07 EE 95 39 80 18 71 1A 28 3C 80 00 00 1E 00 75 72 65 0A 0A 20 20 20 03 04 05 90	1 4E A3 54 40 95 38 2D A0 70 00 00 20 00 20 20 11 12
<			>
	Reset	Load	Save
AVI Audio S	PD MS VS A	ACP ISRC1 ISF	C2 Gamut
Type: Version: Length: Checksum: Data 00: Data 08:	0x82 0x02 13 Bytes 0xA2 (OK) 00 08 00 00 00 04 00 00 81 07	00 00 39	~
	OK Cancel	Apply	Help

Item Name	Item Description
EDID	Standard data in VESA format. It shows the supplier's
	information, max resolution, color settings, manufacturer's
	preset, frequency range, name of monitor and string of
	serial number.
Reset	Reset the current HDMI signal. When EDID is changed,
	please press this button to reset the video signal.
Load	Click to choose a local EDID file to load.
Save	Click to save the current EDID to the desired location.
AVI	Describes type, version and verify bit of the video stream
	and whether it is necessary to verify it.
Audio	Describes the type, version and verify bit of the audio
	stream and whether it is necessary to verify it.
Length	The length of the data string listed below
SPD, MS, VS,	Display information of the HDMI Info Frame
ACP, ISRC1,	
ISRC2, Gamut	



4. 5 The "Video" tab

	Properties		×
Input	Video Decoder Video Proc Amp		
OSD 1	îming HDMI	Info Video)
Input - (1280x720p) 16 🔺 : 9 🔺		
Color format:	YUV BT. 709	Ŧ	
Quantization:	Limited range	▼	
Capture Preview]		
Output format:	1280x720, 50.02 fps, BGR)	(32Bits	
Aspect ratio:	16 <u>^</u> : 9 <u>^</u>	Low latency mode	
Crop input:	0 🔺 , 0 🔺 -	1280 _ , 720 _	
Color format:	RGB	-	
Quantization:	Full range		
Saturation:	Full range	~	
Deinterlace:	Blend top & bottom field		
AR convertion:	Ignore	-	
Load preset Save preset			
	OK Cancel	Apply He	lp

Note : If a box is not ticked, the current related value is shown. If a different value is

required, users need to tick the box first and then set the new val

Item Name	Item Description
Input	Displays the pixel resolution of the current input. When the
	resolution of the input video stream is changed, this display
	will also change.
Aspect ratio	Displays the aspect ratio of the current input. The card will
	show the aspect ratio according to the resolution, assuming
	square pixels. For anamorphic video, users can input the
	correct aspect ratio in the Preview/Capture section in order
	to avoid the video appearing distorted.
Color format	Displays the color space of the current input. The card will

	choose the default color space according to the video
	stream. If users want to change the color space, they can
	tick the box and select a different option.
Quantization	The quantization range. Users can choose full range or
	limited range. Affects min/max black/white levels.

Preview :

-			
Item Name	Item Description		
Output format	Displays the current resolution, frame rate and color space of		
	the previewed video. When preview settings are changed, the		
	data here will be changed accordingly.		
Aspect ratio	Displays the aspect ratio of the current output. The card will		
	determine the aspect ratio according to the resolution. For		
	anamorphic video, users can input the correct aspect ratio in		
	order to avoid the video appearing distorted.		
Low latency	The latency will be reduced when low latency mode is chosen.		
mode	It can be very useful and the benefit is obvious in video		
	conferencing.		
	Input Card APP Time Time Card Latency Capture Latency		
	Normal Mode Low-lantency Mode Low-lantency Mode & Partial Completion Notification		
	Captum latency of 1080p60 YUY2 APP doesn't need to be modified to use this App needs to be optimized to process partially is about 12 ms. Is		
Crop input	Adjusts the captured pixel area from the input video by cropping		
	the edges, using X/Y pixel values for top/left and lower/right.		
Color format	Displays the color space of the currently previewed video. The		
	card will choose the default color space according to the video		
	stream. If users want to change the color space, they can tick		
	the box and make a change.		
Quantization	Quantization range. Users can choose Full range or Limited		
	range.		
Saturation	Displays the grades of saturation of the input signal. Options		
	are Full range, Limited range and Extended GAMUT range.		
Deinterlace	Choose the deinterlacing mode. Options include: Weave (ie.		
	none), Blend top and bottom field, Top only and Bottom only.		
	"Blend top and bottom field" is particularly suitable for when the		
	output resolution is <50% of the input resolution.		
AR conversion	Aspect Ratio conversion mode options include: Fill the image		
	and ignore the original aspect ratio, Keep aspect ratio and fill		
	borders with black, Keep aspect ratio and crop to fit		
Load preset	Load the saved preset		

Save preset	Save the current settings as the default. After the settings in the
	"Preview" tab have been changed, click "Save preset" to save
	the new settings. They will now become the default settings for
	the device.

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4. 6 "Input" tab

ſ	Properties		×
OSD Timing Input Video	HDMI Decoder	Video Video P	Info roc Amp
Video input: Composite input Audio input: Line input 0 Video signal status	0	Auto Auto Link	scan with video
Name Signal status Resolution Aspect ratio Total scan size Active area offset Color format Quantization range Saturation range	Value Locked 720x576i, 50.00 4:3 864x625 Pixels X: 138, Y: 38 YUV BT.601 Limited range Limited range	Hz	
<	Cancel	Apply	> Help

Item Name	Item Description	
Auto scan	"Auto scan" mode will look for a valid input signal using a	
	fixed hierarchy, starting with digital signals before	
	scanning for analogue signals. When unticked, users can	
	manually choose the input signal.	
Link with video	Auto-scans the audio signal related to the video signal. If	
	the video signal is changed, the audio input will be	
	automatically changed to match the video input.	

Video Signal status

Item Name	Item Description
Signal status	Displays the signal detection status. Options are "Locked"
	or "No signal".
Resolution	Displays resolution and frame rate of the input video. If
	the input signal changes, this display will be changed
	accordingly.
Aspect ratio	Displays the aspect ratio of input video source
Total scan size	Displays 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	Displays the chosen color space of the video signal
Quantization range	The luminance quantization range. Options: Full range
	(eg. 0-255) or Limited range (eg. 16-235/240 – for 8bit
	inputs). Affects min/max black/white levels.
Saturation range	Displays the saturation of the input signal. Options are
	Full range, Limited range or Extended GAMUT range.

Audio Signal status

			Proper	ties			
OSD	Tìr	ning	HDM		Vid	leo	Info
Input		Vide	o Decoder			Video F	roc Amp
ideo input: udio input:	Comp Line i	oosite inpu	t 0		>	Auto	scan with video
Video signal st	tatus	Audio sign	al status	Input s	pecific	status	
Name			Value				
Audio forma	t		48000 H	lz, 24 bit	ts, LPC	M	
Channel 18	2		Present				
Channel 3 8	4		Not pres	Not present			
Channel 5 & 6		Not pres	Not present				
Channel 7 & 8		Not pres	sent				
<							>

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Item Name	Item Description
Audio format	Displays the sampling frequency, bit depth and format of
	the current audio.
Channels 1&2	Displays the current audio stream status for each channel
Channels 3&4	pair. Options are "Present" or "Not present"
Channels 5&6	NOTE: These values only indicate the presence of audio
Channels 7&8	signal pathways, and are in no way indicative of audio
	signal <i>levels</i> . An audio channel can be shown as "Present"
	even if no actual audio data is being received (e.g. if the
	audio has been "muted" upstream of the capture card.) The
	analogue Line input will always show as "Present" even
	when no audio cables are connected.

> When HDMI signal is connected, "Input specific status" tab :

OSD	Timing	HDMI	Video	Info
Input	Vic	deo Decoder	Video F	Proc Amp
deo input:	HDMI input 0		V Auto	o scan
udio input:	HDMI input 0			with video
Video signal sta	atus Audio si	gnal status Input	t specific status	
Namo		Value		^
Name Signal status		Present		- 1
Signal Status Mode	i	HDMI		
HDCP encry	oted	No		
Color depth	////	12 Bits		
Pixel encoding		R/G/B 4:4:4		
VIC	-	0		
IT content		False		
Timing - scanning format		Progressive		
Timing - frame rate		59.94 Hz		
Timing - H to	tal	2200 Pixels		
Timing - H ac	tive	1920 Pixels		
Timing - H fro	ont porch	88 Pixels		- 1
Timing - H sy	nc width	44 Pixels		
Timing - H ba	ack porch	148 Pixels		
Timing - V to	tal	1125 Lines		~
Timing Mac	tive	1000 Linco		>

Item Name	Item Description
Signal status	Options are "Present" or "Not present".
Mode	Displays input signal mode (ie. HDMI)
HDCP encrypted	Displays whether the signal is HDCP encrypted. Options
	are "Yes" or "No".
Color depth	Displays the color depth of the current video. Common
	values are 8 bit, 10 bit and 12 bit.
Pixel encoding	Displays pixel encoding. E.g. R/G/B , Y/U/V , Y/Cb/Cr.
VIC	Standard video identification code
IT content	If True, pictures are compressed according to common IT
	practice, or particular requirements derived from IT
	practice.
Timing-scanning	Shows the scan format. E.g. "Progressive" or "Interlaced"
format	
Timing-frame rate	Displays the current frame rate

Timing-H total	Total horizontal pixels captured
Timing-H active	Active horizontal picture width, in pixels
Timing-H front porch	Pixel width between the end of the active horizontal picture
	and the start of the horizontal sync pulse.
Timing-H sync width	Width of the horizontal sync pulse, in pixels
Timing-H back porch	Pixel width between the end of the horizontal sync pulse
	and the start of the next active horizontal picture line.
Timing-V total	Total vertical pixels (i.e. Picture lines) captured
Timing-V active	Active vertical picture height, in lines
Timing-V front porch	Number of lines between the last line of the active vertical
	picture area and the start of the vertical sync pulse.
Timing-V sync width	Width of the vertical sync pulse, in lines
Timing-V back porch	Number of lines between the end of the vertical sync pulse
	and the start of the next active horizontal picture line.

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

> When component signal is connected, "Input specific status" tab :

OSD	Timing	HDMI	Video	Info			
Input	Vid	leo Decoder	Video	Proc Amp			
leo input:	Component ir	nput 0	V 🖌 Aut	o scan			
idio input:	Line input 0		V 🗹 Link	with video			
/ideo signal sta	atus Audio sig	gnal status Inpu	t specific status				
Name		Value		^			
Signal status		Present					
Sync type		Embedded syr	nc				
Frame rate		50.02 Hz					
Scanning for	mat	Progressive	Progressive				
VS width		5 Lines					
Total scan lines		750 Lines					
Embedded sync		Tri-Level					
Timing - Type		CEA					
Timing - Pixel clock		74250000 Hz					
Timing - H ac	tive	1280 Pixels					
Timing - H fro	ont porch	440 Pixels					
Timing - H sy	nc width	40 Pixels					
Timing - H ba	ick porch	220 Pixels					
Timing - V ac	tive	720 Lines					
Timing - V fro	ont porch	5 Lines					
Timing May	ne width	Elipso	_	× *			
				>			

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Item Name	Item Description
Signal status	Options are "Present" or "Not present".
Sync type	Displays the type of synchronization; e.g. "Embedded"
Frame rate	The frame rate of the video source
Scanning format	Options are: "Progressive" or "Interlaced"
VS width	Width of the vertical sync pulse, in lines
Total scan lines	Total number of scanned lines
Embedded sync	The embedded synchronization method; e.g. Bi-Level, or
	Tri-Level

> When CBVS signal is connected, "Input specific status" tab :

		Propert	ies		
OSD	Timing	HDMI	V	ìdeo	Info
Input	١	/ideo Decoder		Video I	Proc Amp
ideo input:	Composite	input 0	Ŷ	✓ Auto	o scan
udio input:	Line input 0)	~	✓ Link	with video
Video signal st	atus Audio	signal status	Input specif	ìc status	
Name		Value			
Signal status	s	Present			
TV Standard		PAL-B/G	/H/I/D		
Field rate		50 Hz			
<					>
	01/				

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Item Name	Item Description
Signal status	Options are "Present" or "Not present".
TV Standard	Options are PAL, NTSC, SECAM
Field rate	The current field rate of the video signal

> When SDI signal is connected, "Input specific status" tab :

OSD Timing HDMI Video Info Input Video Decoder Video Proc Amp deo input: SDI input 0 Imput o Imput				per				
Input Video Decoder Video Proc Amp deo input: SDI input 0 Input o Input scan udio input: SDI input 0 Input specific status Video signal status Audio signal status Input specific status Name Value Signal status Present Type 3G-B dual link Scanning format Segmented frame Color depth 10 Bits Sampling struct Y/Cb/Cr, 4:2:2 ST352 payload ID 8A 4B 00 41	OSD	Ţ	ìming	HDM		Vio	deo	Info
deo input: SDI input 0 Auto scan udio input: SDI input 0 Input specific status Name Value Signal status Present Type 3G-B dual link Scanning format Segmented frame Color depth 10 Bits Sampling struct Y/Cb/Cr, 4:2:2 ST352 payload ID 8A 4B 00 41	Input		Vide	o Decode			Video	Proc Amp
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	ST352 payle	oad ID		8A 4B 0	0 41			
	<							>

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Item Name	Item Description
Signal status	Options are "Present" or "Not present".
Туре	Displays the current video signal type
Scanning format	Options are "Progressive", "Interlaced", "Segmented Frame"
Color depth	The color depth of the current video, e.g. 8/10/12 bit
Sampling structure	Signal type and sampling ratios, e.g. RGB 4:4:4, YCbCr
	4:4:4,YCbCr 4:2:2.

> When VGA signal is connected, "Input specific status" tab :

× Properties OSD Timing HDMI Video Info Input Video Decoder Video Proc Amp Auto scan Video input: VGA input 0 \vee ✓ Link with video ω. Audio input: Line input 0 Video signal status Audio signal status Input specific status ۸ Name Value Signal status Present Sync type -HS -VS 240.02 Hz Frame rate Scanning format Progressive VS width 6 Lines Total scan lines 525 Lines Timing - Type CEA Timing - Pixel clock 108000000 Hz Timing - H active 720 Pixels Timing - H front porch 16 Pixels Timing - H sync width 62 Pixels Timing - H back porch 60 Pixels Timing - V active 480 Lines Timing - V front porch 9 Lines Timing - V sync width 6 Lines Timina Whade parch 20 Lines < > Apply OK Cancel Help

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Item Name	Item Description	
Signal status	Options are "Present" or "Not present".	
Sync Type	Displays the type of synchronization	
Frame rate	The frame rate of the video source	
Scanning format	Options are: "Progressive" or "Interlaced"	
VS width	Width of the vertical sync pulse, in lines	
Total scan lines	Total number of scanned lines	
Timing-Type	Type of timing standard used	
Timing-Pixel clock	Shows the pixel-scanning frequency	
Timing-H active	Active horizontal picture width, in pixels	
Timing-H front porch	Pixel width between the end of the active horizontal picture	
	and the start of the horizontal sync pulse.	
Timing-H sync width	Width of the horizontal sync pulse, in pixels	
Timing-H back porch	Pixel width between the end of the horizontal sync pulse	
	and the start of the next active horizontal picture line.	
Timing-V active	Active vertical picture height, in lines	

Timing-V front porch	Number of lines between the last line of the active vertical picture area and the start of the vertical sync pulse.	
Timing-V sync width	Width of the vertical sync pulse, in lines	
Timing-V back porch	Number of lines between the end of the vertical sync pulse	
	and the start of the next active horizontal picture line.	

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4. 7 "Output" Settings

	Properties	×
Output Format		
Output		
Color Space:	YUY2 ¥	
Image Size:	768 X 576 Presets >	
Frame Rate:	25 FPS Presets >	
	OK Cancel Apply	1

Item Name	Item Description
Color Space	Select from 13 color spaces including YUY2, YUYV, etc.
Image Size	The initial output resolution defaults to the native resolution
	of the input source; but it can be changed, either by
	manually entering values for the width & height, or by
	clicking "Presets >" and selecting a resolution from those
	listed. The resolution shown in bold is suggested by the
	system as being the best match for the input resolution.
Frame Rate	The default frame rate is that of the input source, but you can
	also click "Presets >" to select other frame rates. The frame
	rate shown in bold is the system-preferred value, but the
	rate can also be entered manually.

4. 8 "Video crossbar"

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Pr	operties 🛛 🗙
Crossbar Input	Output
0: Video Tuner In V Current Input: 0: Video Tuner In	0: Video Decoder Out 🗸
Related Pin: -1: Mute In Link Related Streams	Related Pin: -1: Mute Out
	OK Cancel Apply

Select a signal type for the "Input" from the drop-down list of options. The number 6 means the current signal, which is auto-detected by the system. When the selected signal is different from the actual input signal, video will not be displayed correctly. Note:

- 1. Video Parallel Digital In = SDI signal
- 2. Video Serial Digital In = HDMI signal
- 3. Video RGB In = VGA signal
- 4. Video YRYBY In = CVBS signal
- 5. Video S-Video In = S-Video signal
- 6. Video Composite In = YPbPr signal

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