TBS2600V1 Professional H.265/H.264 HD-SDI Video Encoder

User Guide

Dear Customers,

Thank you so much for using TBS products. TBS2600V1 is a professional H.265/H.264 HD-SDI video encoder, which equipped with SDI input and dual stream RJ45 output. What's more, it has SDI output which can output original data directly. It supports MPEG-4 AVC/H.265/H.264 High Profile code format input and dual stream H.264 format, audio ACC format output, it also compatible with HTTP, UDP, RTSP, RTMP, ONVIF protocols.

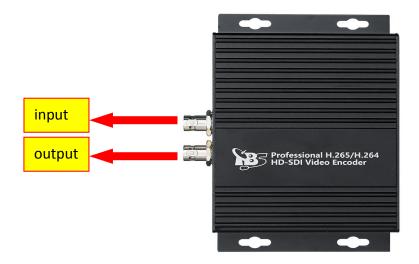
The product can be applied to education, health care, IPTV, conference, remote education, news interview, banking, transportation and other industries.

Main Features:

Support direct network connection without HD capture card Main stream and secondary stream can use different network protocols for transmission Low Power consumption, less than 6W Compliant with HTTP/RTSP/RTP/RTMP/UDP/ONVIF protocols Supports MPEG-4 AVC/H.265/H.264 High Profile code

Applications:

IPTV Digital Signage Video Conference Replace HD Video Capture Card Hotel TV system Live Broadcast Teaching/Campus Broadcast Recording System NVR (Net Video Recorder)



1. Network Settings on Your PC

1.1 TBS2600V1 network interface is associated with your PC's network port. You can set up the existing cable network configurations by their connection. (Kindly find the following screenshot for your reference.)



	i 🔍 ——		×		See full map
	HANGWEIHUA-PC (This computer)	Unidentified netwo	rk	Internet	
View you	ur active networks				Connect or disconnec
王	Unidentified netv	vork	Access type:	No Interne	et access
7.	Public network		Connections:	Local Area	Connection 2
-	Set up a new connectio		VDN		
	Set up a new connection	or network			
*	Set up a wireless, broad	on or network Iband, dial-up, ad hoc, c	or VPN connection	on; or set up a	router or access poin
19 19 19	Set up a wireless, broad Connect to a network				
¥ ¥	Set up a wireless, broad Connect to a network	lband, dial-up, ad hoc, c o a wireless, wired, dial-			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Set up a wireless, broad Connect to a network Connect or reconnect to Choose homegroup an	lband, dial-up, ad hoc, c o a wireless, wired, dial-	up, or VPN netw	ork connectio	n.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Set up a wireless, broad Connect to a network Connect or reconnect to Choose homegroup an	lband, dial-up, ad hoc, o to a wireless, wired, dial- id sharing options s located on other netw	up, or VPN netw	ork connectio	n.

IPv4 Connectiv	vity:	No Internet access
IPv6 Connectiv	vity:	No network access
Media State:		Enabled
Duration:		00:51:55
Speed:		1.0 Gbps
Details]	
<u>, (</u>]	<u> </u>
] Sent —	Received
Details ctivity ———	Sent — 76,748	

Thediler I Cle G	BE Family Controller	
		Configure
is connection uses	the following items:	
🛛 🏪 Client for Mic		
QoS Packet		
	er Sharing for Microsoft	Networks
	12.07.24	
Exception in section where the section of the secti	ocol Version 6 (TCP/IPv	
🛛 📥 Internet Proto	ocol Version 4 (TCP/IPv	(4)
 Internet Proto ▲ Link-Layer To 	ocol Version 4 (TCP/IPv opology Discovery Map	r4) per l/- ofiver
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A Internet Proto A Link-Layer To A Link-Layer To	boool Version 4 (TCP/IPv oppology Discovery Map opology Discovery Resp	(4) per la conver conder
 Z → Internet Proto Z → Link-Layer To 	ocol Version 4 (TCP/IPv opology Discovery Map	(4) per l/ - Ofiver
 Internet Proto Link-Layer To Link-Layer To Install Description 	pool Version 4 (TCP/IPv opology Discovery Map opology Discovery Resp Uninstall	4) per 1/20river ponder Properties
A Internet Proto Link-Layer To A Link-Layer To Anstall Description Transmission Control	boool Version 4 (TCP/IPv oppology Discovery Map opology Discovery Resp	(4) per 1 oniver ponder Properties

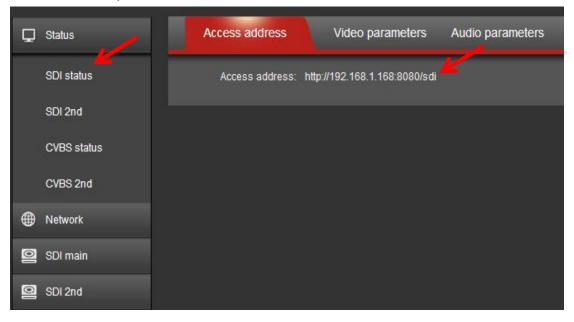
Internet Protocol Version 4 (TCP/IPv	4) Properties
General	
You can get IP settings assigned au this capability. Otherwise, you need for the appropriate IP settings.	
🔘 Obtain an IP address automatic	cally
Output See the following IP address:	
IP address:	192 . 168 . 1 . 50
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.1.1
Obtain DNS server address aut	tomatically
Ose the following DNS server a	ddresses:
Preferred DNS server:	
Alternate DNS server:	4 4 A
🔲 Validate settings upon exit	Advanced
	OK Cancel

2. TBS2600V1 HD-SDI Encoder Settings

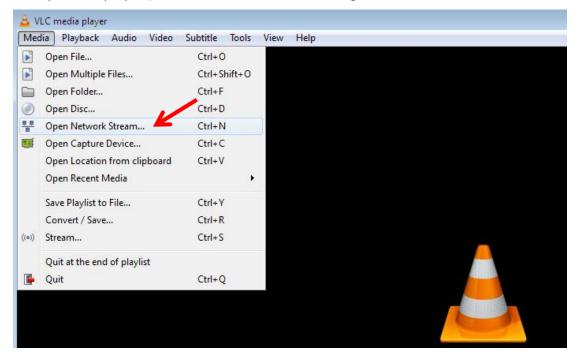
2.1 Open IE browser, input "192.168.1.168" to visit TBS2600V1 HD-SDI Encoder's web operation interface



2.3 Get live streaming "Access Address" from web UI. (Kindly find the following screenshot for your reference.)



2.2 Input "User Name: root Password: root"



2.4 Open VLC player (You can find network streaming address as below.)

2.5 Please enter a network URL, and then click "Play".

File	O Disc	Network	Capture Device		
Network	· Protocol	Notes: If there is	a space at the end of th	e streaming addre	ess, please delete
Please 6	enter a netwo	ork URL:			
http://	/192.168.1.1	68:8080/sdi			•
rtp:// mms rtsp:/	@:1234 ://mms.example /server.example	e.com/stream.avi es.com/stream.asx e.org:8080/test.sdp ve.com/watch?v=gg6	4x		
				<u> </u>	



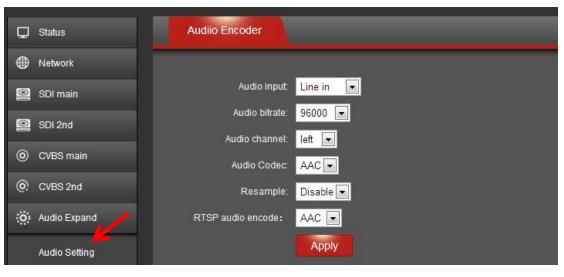
3. SDI Main Stream Setting

Q	Status	SDI main		
۲	Network			
0	SDI main	channel name:	xxx	
	SDI main	H.264/5:	H264 💌	
		H.264 Level:	baseline prof	
0	SDI 2nd	Encoding frame rate:	30	[5-30]
0	CVBS main	Bitrate control:	vbr 💌	
0.	CVBS 2nd	Key interval:	60	[5-200]
0	Audio Expand	Encoded size:	auto 💌	
٢	System	MinQp:	4	[1-51]
		MaxQp:	45	[MinQp-51]
		MaxBitrate: (K):	1024	740 400003
		Package:	You can cho	pose protocol according to your needs.
		WEB Port:	80	[1-65535]
		HTTP:	/sdi	Enable 💽 Format /sdi (begin with "/")
		HTTP Port	8080	[1-65535]
		RTSP:	/sdi	Disable 💽 Format: /sdi (begin with "/")
		RTSP Port:	554	[1-65535]
		RTSP TCP:		
		unicast IP:	192.168.1.18	Disable 💌
		unicast port:	1234	[1-65535]

3.1 SDI 2nd Stream Setting

SDI 2nd	H.264 Level: :	baseline prof	
	Encoding frame rate:	30	[5-30]
SDI 2nd	Bitrate control:	cbr 💽	Set up hirste here. The may hirste is 1024
O CVBS main	Encoded size:	720×540 💽	Set up birate here. The max birate is 1024.
CVBS 2nd	Bitrate: (K):	1024	[16-12000]
Audio Expand	HTTP:	/sdi_ext	Disable 💌
🗿 System	HTTP Port:	8090	[1-65535]
	RTSP:	/sdi_ext	Disable 💌 Format. /sdi (begin with "/")
	RTSP Port:	556	[1-65535]
	unicast IP:	192.168.1.18	Disable 💌 Format: /sdi (begin with "/")
	unicast port:	1236	[1-65535]
	Multicast IP:	239.0.0.3	Disable 💌
	Multicast port:	1236	[1-65535]
	RTP:	239.0.0.4	Disable 💌
	RTP port:	1236	[1-65535]
	RTMP server IP:	192.168.1.18	Disable 💌
	RTMP server port:	1936	[1-65535]
	RTMP user name:		
	RTMP password:		
	RTMP app name:	live	
	RTMP stream name:	stream	
		Apply	





3.4 IP Setting

Status	Network	
Network		
Network	DHCP:	Disable 🗨 🖌
🙆 SDI main	IP:	192.168.1.168
	Netmask:	255.255.255.0
SDI 2nd	Gateway:	192.168.1.1
OVBS main	DNS:	0.0.0.0
CVBS 2nd	MAC:	00:22:ab:20:21:22
🔅 Audio Expand		Apply
System		

3.5 Upgrade Settings

Status	System settings	Change Password	Upgrade settings	Version
Hetwork				
SDI main	Upgrade Syste	m:	Browse upload	
SDI 2nd		upgrade 🟒	/	
O CVBS main	progress(%):		
O CVBS 2nd				
🔅 Audio Expand				
🕼 System				
System				