

APPENDIX B. LICENSING

The table below lists all functions in UFG-300 devices and the licensing scheme involved.

Overview

Input / Output Port	Tab	Default	Pro License	HDCP 2.2	HDCP 2.2 CTS	TSI Basic	TSI Advanced	Electrical Test
HDMI Reference Sink (HDMI RX)	Video preview and saving (Video).	●	●			▲	▲	
	Audio monitoring and saving (Audio).	●	●			▲	▲	
	Status information of the upstream link (Link).	●	●			▲	▲	
	EDID editor (EDID).		●				▲	
	HDCP status monitor and control (HDCP)		●	●			▲	
	InfoFrames		●				▲	
	Source DUT Testing		●				▲	▲
	Electrical Test							▲
DisplayPort Reference Sink (DPRX)	Video preview and saving (Video).	●	●			▲	▲	
	Audio monitoring and saving (Audio).	●	●			▲	▲	
	Status information of the upstream link (Link).	●	●			▲	▲	
	Video mode and control of the upstream link (Link).		●				▲	
	EDID editor (EDID).		●				▲	
	DPCD editor (DPCD).		●				▲	
	HDCP status monitor and control (HDCP)		●	●			▲	
	Source DUT Testing		●		■		▲	▲
Electrical Test							▲	
HDMI Reference Source (HDMI TX)	Video pattern generator (Pattern Generator).	●	●					
	Status information of the downstream link (Link).	●	●					
	Control of the downstream link (Link)		●					
	EDID editor (EDID).		●					
	HDCP status monitor and control (HDCP)		●	●				
DisplayPort Reference Source (DPTX)	Video pattern generator (Pattern Generator).	●	●					
	Status information of the downstream link (Link).	●	●					
	Control of the downstream link (Link)		●					
	EDID editor (EDID).		●					
	HDCP status monitor and control (HDCP)		●	●				
	Sink DUT Testing				■			
SPDIF Reference Sink (SPDIF)	Audio monitoring and saving (Audio).	●						

In the following pages, please find detailed explanation of the functions and the licensing.

HDMI Reference Sink (HDMI RX)

Tab	Function	Basic	Pro License for HDMI Sink	HDCP 2.2 License	Electrical Test License
Video					
	Preview	*			
	Snap preview	*			
	Capture	*			
	Status	*			
Audio					
	Preview	*			
	Capture	*			
	Status	*			
Link					
	Clock locked	*			
	Symbol locked (Red, Green, Blue channels)	*			
	Stream Status (video, audio)		*		
	CRC of frame RGB color components		*		
	ARC enable, status (UCD-301)		*		
	HPD Status (Asserted / De-asserted)	*			
	HPD Assert / De-assert	*			
	HPD Pulse	*			
EDID					
	Read/Write		*		
	Save/Load		*		
	EDID Editor		*		
	Support HDMI VSDB		*		
HDCP					
	HDCP 1.4 Support		*		
	Authentication status (authenticated or not)		*		
	Encryption status (enabled/disabled)		*		
	HDCP 2.2 Support			*	
InfoFrames					
	Read HDMI InfoFrame data		*		
Source DUT Testing					
	Electrical Tests				*
	Execute TSI Tests		*		

DisplayPort Reference Sink (DPRX)

Tab	Function	Basic	Pro License for DP Sink	HDCP 2.2 License	HDCP 2.2 CTS License	Electrical Test License
Video						
	Preview	*				
	Snap preview	*				
	Capture	*				
	Status	*				
Audio		*				
	Monitor and graphical preview	*				
	Capture	*				
	Status	*				
Link		*				
	Link Status	*				
	Link Configuration		*			
	Stream Status (video, audio)		*			
HPD						
	HPD Status (asserted / de-asserted)	*				
	HPD Assert / De-assert	*				
	HPD Long Pulse	*				
	HPD Short Pulse	*				
EDID						
	Read/Write		*			
	Save/Load		*			
	EDID Editor		*			
	Support for up to 3840x2160 video timings configuration		*			
DPCD						
	Read/Write		*			
	Save/Load		*			
	DPCD Decoder		*			
HDCP						
	HDCP 1.3 Support		*			
	Authentication status (authenticated or not)		*			
	Encryption status (enabled/disabled)		*			
	Test key support		*			
	HDCP 2.2 Support			*		
	HDCP 2.2 CTS for testing DP Source DUT				*	
Source DUT Testing						
	Execute TSI Tests		*			

HDMI Reference Source (HDMI TX)

Tab	Function	Basic	Pro. License for HDMI Source	HDCP 2.2
Pattern Generator				
	Fixed Video Timings	*		
	Fixed Video Patterns	*		
	Custom Timing		*	
	Custom Test patterns		*	
Link				
	Link Status (HDMI / DVI mode, HDMI 1.4 / 2.0, Video status, Scrambling status)	*		
	HPD Status: (Asserted / De-asserted)	*		
	Link Configuration: (Enable / disable scrambler, Set 3G / 6G Link Mode)	*		
EDID				
	Read/Write, Save / Load, EDID Editor		*	
	Support up to 3840x2160 video timings configuration		*	
	Support Vendor Specific Data Block (VSDB)		*	
HDCP				
	HDCP 1.4 Support		*	
	Control: (Enable / Disable, Authenticate only, Encryption Enable / Disable)		*	
	Status: (Authentication status, Encryption status)		*	
	HDCP 2.2 Support			*

DisplayPort Reference Source (DPTX)

Tab	Function	Basic	Pro License for DP Source	HDCP 2.2	HDCP 2.2 CTS
Pattern Generator					
	Fixed Video Timings	*			
	Fixed Video Patterns	*			
	Custom Timing		*		
	Custom Video Patterns		*		
Link					
	Link Status (Clock Recovery, Symbol Lock, Voltage swing, Pre-emphasis, Lane count, Link rate, Framing mode)	*			
	HPD Status: (Asserted / De-asserted)	*			
	Link Configuration: (Lane count, Link Rate, Framing mode, Clock mode)		*		
EDID					
	Read/Write, Save/Load, EDID Editor		*		
	Support up to 3840x2160 video timings configuration		*		
DPCD					
	Read / Write		*		
	Save / Load		*		
	DPCD Decoder		*		
HDCP					
	HDCP 1.3 Support		*		
	Control: (Enable / Disable, authenticate only, Encryption Enable / Disable)		*		
	Status: (Authentication status, Encryption status)		*		
	HDCP 2.2 Support			*	
	HDCP 2.2 CTS for testing DP Source DUT				*

S/PDIF Reference Sink (SPDIF)

Tab	Function	Basic
Audio		
	Preview	*
	Capture	*
	Status	*