

HD Video Conference Server

TV-60MCU-16

User Manual

Manual Version	V1.0
Product Version	V1.0

CONTENTS

NOTICE	2
1. LOGIN SERVER	4
2. MEETING	6
2.1. Воок 2.2. Control	
3. USERS	9
3.1. Add 3.2. List	
4. SYSTEM	11
 4.1. VERSION UPGRADE	12

Notice

In order to using the equipment right and safely, please read the notice first and follows them in strictly.

Basic requirements

- In the procedure of equipment storage, transportation, using, must keep it dry, and avoid fierce collision.
- Please don't disassemble equipment. Go to the specified maintenance station if breakdown.
- Without any authorization, no facilities and personal can make some changes in equipment's structure, safety and design.
- Please follow the rules and laws when using the equipment, and respect others' rights.

Environment requirements

- Please keep equipment in ventilated, none-direct lighted location.
- Please avoid equipment from water or humid area.
- Please put equipment in stable work platform and strictly follow the installation rule from manufacture.
- Please don't put any objects above equipment and keep 10 cm radiation space around equipment and the top.
- Please don't put any flammable objects around equipment, such as foamed material and etc.
- Please keep equipment away from heat source and fire spots, such as electric heater, candles and etc.
- Please keep equipment away from strong magnetic fielded or strong electric fielded machines, such as microwaves, refrigerators, cell phones and etc.

Usage notice

 Please don't let children to play any equipment and small parts, so to avoid danger from swallow.



- Please use recommended assembly by manufacture, such as charger adaptors, batteries and etc.
- Please avoid any liquid into equipment. If accident happens, please power off, plug off all the cables, such as electric source, video cable and ect, and contact specified maintenance station.
- Please avoid foreign objects like metal to go into equipment by ventilation hole.
- Please keep hands dry when to plug in or off the cables.
- Please don't step into, stretch, or bend the equipment cables, in case to cause breakdowns.
- Please don't use outworn and old cables.
- Please power off then in lightning weather, and plug off all the cables to avoid lightning damage.
- Please power off if not use for a long time.
- Please power off and plug off all the cables immediately and contract specified maintenance station if some usual situation happen, such as smoke, unusual sound, smell from equipment.
- Please don't scrape and wear out equipment enclosure. Falling paint material may cause allergic or abnormal equipment functioning, like short circuit by falling paint.

Clean notice

- Before cleaning, please stop using equipment by power off and plug off all the cables, such as power line and etc.
- In the procedure of cleaning, please avoid cleaning equipment enclosure by cleaning solution or any sprayed cleanser.

Environment Protection

Please don't dump any broken equipment or batteries in garbage can. Please follow the local laws of how to handle equipment packing material, ran-out batteries, broken equipment, and support recycling.

1. Login server

1) Enter the IP address of your server in the browser, and then you can see the server web login page

	/192.168.1.235/login.action
2) Enter your	Figure 1-1 IP address r account and password, and then click " ^{Login} " to login server.
	92.168.1.235/login.act ♀ ≥ ¢ @ ITC HD video conference × select language ▼ C HD video conference server
	Account test *
	Password • *

Figure 1-2 Login page

3) After you successfully log on to the server, interface as shown in Figure 1-3.

Figure 1-3

 In the upper right corner of the WEB interface select WEB language to display, select Chinese Simplified or English

			X
		☆	* \$
		<mark>select language</mark> 中文(简体) English	

1-4

2. Meeting

2.1. Book

1) Click "Meeting"-"Book" to enter the appointment meeting interface.

ITC HD vid	eo conference ser	ver	select language ✔ Server time : 2014-07-3971613.45
Hello, test Log out	Home >> Meeting	g>> Book	
	Base	Audio & Video	
▼ Meeting	Meeting Name:	*	Layout
Book	Begin time: End time:	IMMD	Current layout : 1
Control	Network type: Low Ba Max members : 8	ndwidth (256 Kbps - 2 Mbps) 🗸	
▼ Users	Meeting Pwd:		0 1 2 3 4 5
Add	Manager Pwd:	*	
List	Explanation:	,	6 7
▼ System			Members
Version upgrade			Member range : All member
Log			
Servers			Submit Cancel
Parameters			
Licenses	v		
		Ccopyright 2013	3 ITC Electronic Technology Co., Ltd. All delivery

2-1

2) Base

Meeting Name: Enter the name of the Conference you would like to book, the name can be in English, numbers, Chinese

Begin time: Conference start time cannot be less than current server time, choose "immediately", the start time is the server's current time and the time will updated in real time

End time: Conference end time cannot be less than start time

Network type: Select network type based on actual network bandwidth, the system based on the network type featured an optimum set of default audio and video parameters **Max members**: Sets the maximum number of participants of the Conference, 1 Conference sets a maximum 120 participants

Meeting Pwd: Set the conference password, terminals join the Conference should through password authentication

Expianation: In the input box enter a description related conferences

Layout: After you select a screen layout, each membership will be displayed according to

the layout

Member: To specify participants or setting everyone can join the meeting

3) Audio & Video

ITC HD video	conference ser	ver	select language V Server time : 2014-07-29T17:14:35
Hello, test Log		g>> Book	
	Base	Audio & Video	
▼ Meeting	Audio		
Book		a G.711u G.711a(strero) G.711u(strero) ISAC ILBC G722 G722(strero))
Control	Others : 🗹 Echo	canceller ☑ Noise suppressor □ Automatic gain □ Mute detection	
▼ Users	Major video Encoding: H.2	Resolution: [720x576 ∨ Frame	e rate: 30 V
Add	Bit rate: 768	Skbps v Video quality: Fluency priority v Transport pro	otocol: AUTO 🗸
List	Minor video		
▼ System	Encoding: H.2 Bit rate: 102		e rate: 15 v btocol: AUTO v
Version upgrade			
Log		Submit Cancel	
Servers			
Parameters			
Licenses			
		Ccopyright 2013 ITC Electronic Technology Co., Ltd. All delivery	

2-2

Audio: Select the desired audio encoder, we recommend you use G711a encoder
Echo canceller: can eliminate echo after it is used, the default is to use
Noise suppressor: Can suppress noise after it is used, the default is to use
Automatic gain: Automatically adjusting the size of the volume, the default is not used
Mute detection: After application Depending on whether the participant statements to determine if an audio encoding is needed

Major video: Set meeting Major video default parameters. After the terminal entering the Conference, the Major video video-encoding started out as a default parameters, until the conference president control or the user change his parameter by himself.

Minor video: Set meeting Minor video default parameters. After the terminal entering the Conference, the Minor video video-encoding started out as a default parameters, until the conference president control or the user change his parameter by himself.

Encoding: Fixed H.264 encoding

Resolution: After you set the resolution, a Terminal will encode the video at the set resolution when it initiation.



Frame rate: After you set the frame rate, a Terminal will encode the video at the set frame rate when it initiation.

Bit rate: After you set the Bit rate, a Terminal will encode the video at the set bit rate when it initiation, until the conference president control or the user change his parameter by himself.

Video quality: To select Fluency priority or Quality priority mode, the Fluency priority mode recommended

Transport protocol: To select TCP, RTP or AUTO mode, the AUTO mode recommended

2.2. Control

	Home >> Mee						Server time : 2014-07-30T0
out	Meeting Name:			State: 🗹 Read	ły 🗹 Working 🗹 Sto	oped	_
Meeting	Meeting time:from		to				B
meeting	Meeting Name	State	Begin time	End time	Book user	Book time	Operate
Book	测试会议	Stopped	2014-07-29T09:00:00	2014-07-29T09:10:00	test11	2014-07-29T08:46:32	View Delete
Control	测试会议	Working	2014-07-10T16:53:38	2014-08-29T16:53:20	超級管理员	2014-07-10T16:53:38	View Lengthen Stop
	展示会议	Working	2014-07-10T10:09:43	2014-07-31T10:09:31	超级管理员	2014-07-10T10:09:44	View Lengthen Stop
Add	total 1 page 3 records c	aron 1.1 page	-				ous next last page] jump to
Add List	tom i page s records e	aren 11 page					
Add List System	tom i pige s record je	aren 11 page					
Add List 7 System Version upgrade	ona i page i neorosi je	aren 11 pag					
Add List 7 System Version upgrade	oni i pge room (aren 11 pag					
Vsers Add List System Version upgrade Log Servers Parameters	oni i pge recourte						

2-3

Meeting Name: Meeting can be filtered and queried by conference name and conference

name keyword

Begin time: Meeting can be filtered and queried by Begin time and End time

State: Meeting can be filtered and queried by State

Book: Click the Book button in the upper right corner of the form to enter the appointment meeting interface

Page8

3. Users

3.1. Add

ITC HD video	select language ∨ conference server Server time: 2014.07.30709.21.34
Hello, test Log out	Home >> Users >> Add
▼ Meeting	Add Account: *
Book	Password: * Repeat password:
Control	User name:* User type: ⊛ normal User ○ manager
▼ Users	User state: e Enabled Disabled Submit Cancel
📃 Add	
List	
▼ System	
Version upgrade	
Log	
Servers	
Parameters	
Licenses	Ccopyright 2013 ITC Electronic Technology Co., Ltd. All delivery
	scopyrgm 2015 fro mectomic recursionsy co., no. All delivery

3-1

Account: Terminal login conference required by user ID and password authentication Password: Terminal login conference required by user ID and password authentication User name: After terminal into the conference, video window will displays your user name User type: Ordinary user accounts can log on session, the administrator account can log on to the server and login sessions

User state: When enabled is selected, user account is valid. When disabled is selected the user account is not valid

3.2. List

Hello, test Log	Home >> Users >> Us							
out	Search Please input Account							
Meeting	Account	User name	User type	User state	Last login time	Operate		
weeting	nanjing	南京会场	normal User	Enabled		Edit Delete		
Book	qh	青海会场	normal User	Enabled		Edit Delete		
	test	test	manager	Enabled		Edit Delete		
Control	test1	test1	normal User	Enabled		Edit Delete		
	test10	test10	normal User	Enabled		Edit Delete		
Users	test11	test11	manager	Enabled		Edit Delete		
Add	test2	test2	normal User	Enabled		Edit Delete		
7 14 4	test3	test3	normal User	Enabled		Edit Delete		
List	test4	test4	normal User	Enabled		Edit Delete		
	test5	test5	normal User	Enabled		Edit Delete		
System	testő	test6	normal User	Enabled		Edit Delete		
	test7	test7	normal User	Enabled		Edit Delete		
Version upgrade	test8	test8	normal User	Enabled		Edit Delete		
Log	test9	test9	normal User	Enabled		Edit Delete		
Servers	total 1 page 14 records current 1/1 pa	age			[first page previous next las	st page] jump to		

3-2

Search: You can enter the account name, account part characters in filter query

Add: Click the Add button in the upper right corner of the form to enter the add user interface

Delete: Delete the corresponding user

Edit: Modify the specified account, including user name, password, user type and user status

4. System

4.1. Version upgrade

Hello, test Log out	Home >> System :							
out	Search	Q						Add version
Meeting	Version number	Status	Update target	Update approach	File size	Description	Create time	Operate
Book				No data				
Control	total 0 page 0 records current 1	/0 page				[first page p	previous next last page	jump to G
Control								
Users								
Add								
List								
System								
Version upgrade	ר							
Log								
Servers								
Parameters								
Licenses								

4-1

Search: You can enter the version name in filter query

Add version: Add requires updated version. Click the Add version button in the upper right corner of the form to enter the updated interface. As shown in Figure4-2

Version number:	*	
Update target: •	Client	
Update approach : •	Force OSelectable	
Status:	Not enabled OEnabled ODisa	bled
Description:		0
Upload file:	浏览 *	

1-2

Version number: Fill in the Add upgrade package version number

Update target: Force selected clients

Update approach(Force): After you upload a new version to the server, a terminal logs

on to the server will force the upgrade process

Update approach(Selectable): After you upload a new version to the server, When a

terminal logs on to the server you can choose whether to upgrade the program **Status(Not enabled):** After you upload a new version to the server, Terminal logon server

will not prompt the upgrade program

Status(Enable): After you upload a new version to the server, a Terminal logon server prompts you to upgrade the program

Status(Disable): After you upload a new version to the server, Terminal logon server will not prompt the upgrade program

4.2. Log

ITC HD video	conference serv	ver			Same	select language V
Hello, test Log out						
	MGR Log	MCU Log	WEB Log			
▼ Meeting	File name		File size	Modified	Operate	
Book			No data			
Control						
▼ Users						
Add						
List						
▼ System						
Version upgrade						
📃 Log						
Servers						
Parameters						
Licenses v						
		Ccopyrigh	t 2013 ITC Electronic Technology C	o., Ltd. All delivery		

4-2

Access log management click to see MGR, MCU, WEB log

4.3. Servers

1) Logical server: MGR service and MCU service installed on a physical server

Hello, test Log Home >> out	System >> Se						
Logical se	rver Phys	ical server					
eting							Add se
k Server code	Server type	Server name	Server IP	Server port	Version number	Ор	erate
2	MGR	本地MGR	127.0.0.1	20001	1.0	Restart	Delete
3	MCU	本地MCU	127.0.0.1	20002	1.0	Restart	Delete
em							
em							
em on upgrade							
m							

4-3

Restart: Restart MGR or MCU service

Delete: Delete MGR or MCU service

Add service: To add a logical server. Click the Add service button in the upper right corner of the form to enter the Add service interface. As shown in Figure4-4

Home >> System >> Add server		
Add server		
Server type:	◎ MGR ● MCU	
Server name:		*
Server IP:		*
Server port:		*
Version number:		
	Submit	Cancel
	4-4	



Notice: Do not modify the MRG and the MCU configuration

2) Physical server: Server hardware

ITC HD vide	o conference ser	ver				select language Server time : 2014-07-30T14:26:51
Hello, test Log out	Home >> System					
	Logical server	Physical server				
Meeting	Server code	Server type	Server name	Server IP	Operate	
Book	1	System	本地系统	127.0.0.1	Restart Shutdown	
Control						
Users						
Add						
List	-					
System						
Version upgrade						
Log						
Servers						
Parameters						
Licenses						
			Copyright 2013 ITC Electronic Technology	Co., Ltd. All delivery		

Restart: Restart the physical server

Shutdown: Shut down the physical server

4.4. Parameters

	c		select language
TTC HD vide	o conference server		Server time : 2014-07-30T14:29:43
Hello, test Log	Home >> System >> System parameters setting		
	Directory path configuration		
▼ Meeting	Upload file path:		
	MGR log path:		
Book	MCU log path:		
Control	Web log path:		
	Server configuration		
▼ Users		20001	
Add		20002	
List	MCU video port 1:	20003	
	MCU video port 2:	20004	
▼ System	MCU audio path:	20005	
Version upgrade		Submit	
Log			
Servers			
Parameters			
Licenses			
	©copyright 2013 ITC Electron	ic Technology Co., Ltd. All delivery	

4-5



4.5. Licenses

Hello, test Log out	Home >> System >> L						
	The local machine code :		Input code				
Meeting	Serial number	Period	Effect time	Expire time	Trial days	Allow terminals	Status
Book				No data			
	total 0 page 0 records current 1/0 page					[first page previous next last	page] jump to GO
Control							
Users							
Add							
List	P						
' System							
Version upgrade							
Log							
LOG							
Servers							

Please contact ITC for register code to activate the system.