



# TECHNOLOGY

The Local Organising Committee (LOC) should be designed in such a way that local knowledge, skills and expertise are used. The LOC structure should be set up that is effective and efficient.

## SECTION 7



# Introduction



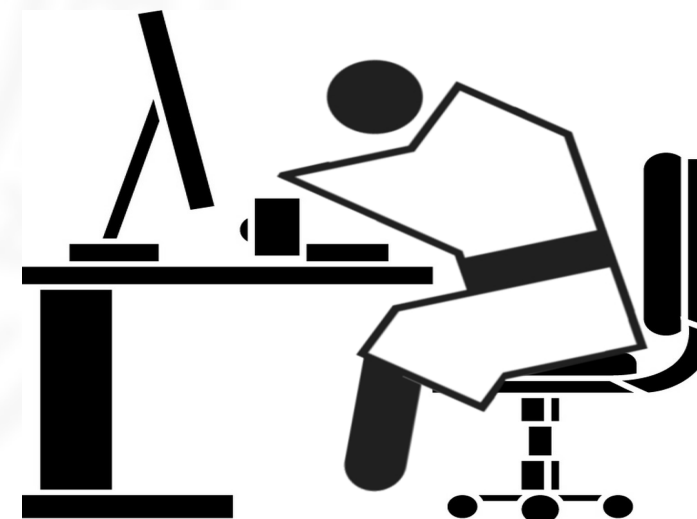
**A proper IT set-up is essential for a successful competition. Please read & follow carefully!**

- This document needs to be **forwarded** to the responsible persons and companies in charge of fulfilment. The **experts** in each field need to have these requirements as soon as possible.
- Every **detail** is important. If a specification cannot be fulfilled entirely or certain items cannot be delivered as described: please **communicate** this beforehand with the IJF IT department. All changes need approval.
- The installation time and effort are easily underestimated. Finishing the set-up late in the night before start of competition is risky. All needs to be properly tested.

Set the right **priorities!**

- If there are any questions, please don't hesitate to contact IJF IT department: [it@ijf.org](mailto:it@ijf.org)

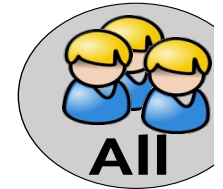
**We are looking forward to a close cooperation  
and a successful event**



IT Requireme

**Version 2.0** - Please check for **updates** at <https://it.ijf.org>

# Before start...

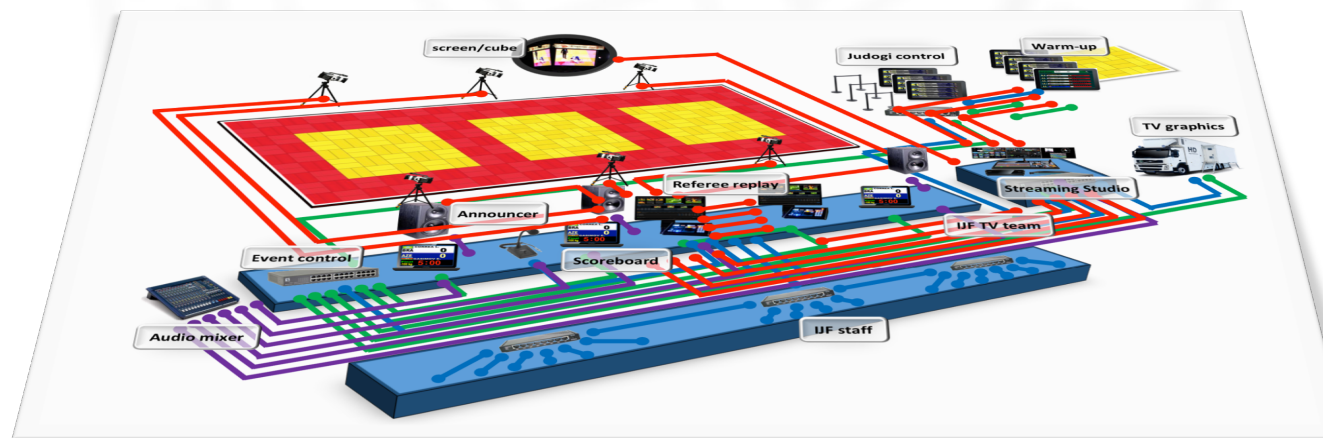


The positions in the venue may vary for each event.

We will provide an exact **seating plan** before the start of cabling.

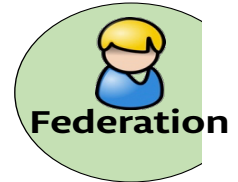
Additionally, we will add **stickers** on the tables with the position names and start/end points for each cabling: Local network, internet, audio, video etc.

Therefore, please set the **priority** to have the **podiums** (including streaming studio) with **tables** and covers ready first! Then the cabling can start...





# Equipment & Transport



The IJF IT equipment (video streaming machines, referee replay devices, cameras etc.) will be shipped by a professional **logistics company**. They will handle all custom procedures



We need from your federation a **contact person**. The logistics company will get in touch with you for coordinating the **date, time** and **place** for **delivery** before and the pick-up after the event



Before and after the event: the equipment needs to **be stored** and locked in a **safe room** in the venue

**IT Requirement**



# Accreditation cards and lists



## Organiser provides to IJF:

### Logos:

- Event
- Federation
- Local sponsors

### Responsible Persons

with contact mobile number:

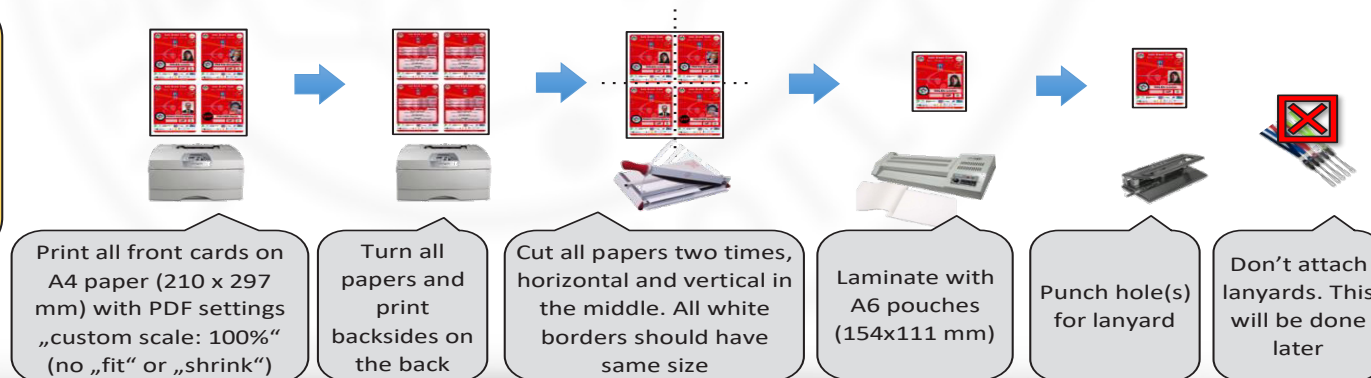
- General organisation
- Accommodation
- Transport

IJF finalises the card layout

Organiser gives final approval

IJF sends PDF cards of all delegations and several lists for accreditation to the organiser for printing in

Accreditation cards need to be printed, cut and laminated. Everything needs to be ready the day before the start of accreditation at the



# Accreditation Setup



Checklist		<input checked="" type="checkbox"/>
2	Color laser printer: • 20 ppm or faster • network connection	<input type="checkbox"/>
2	Complete set of toner	<input type="checkbox"/>
1	Copy machine	<input type="checkbox"/>
2	Laminating machines	<input type="checkbox"/>
2	Paper cutter	<input type="checkbox"/>
2	Hole puncher	<input type="checkbox"/>
	Paper A4	<input type="checkbox"/>
	Laminating pouches Exact size: 154x111 mm	<input type="checkbox"/>
	Lanyards	<input type="checkbox"/>
5	Multi-outlet power strips	<input type="checkbox"/>
	Wireless Internet	<input type="checkbox"/>

The room needs to be set-up the evening before the start of accreditation. This includes delivery of all equipment plus the printed and laminated accreditation cards

Network IP addresses from printers need to be set manually to 192.168.2.8 and 192.168.2.9

The same printers (plus toners) need to be taken afterwards to the draw and then to the venue

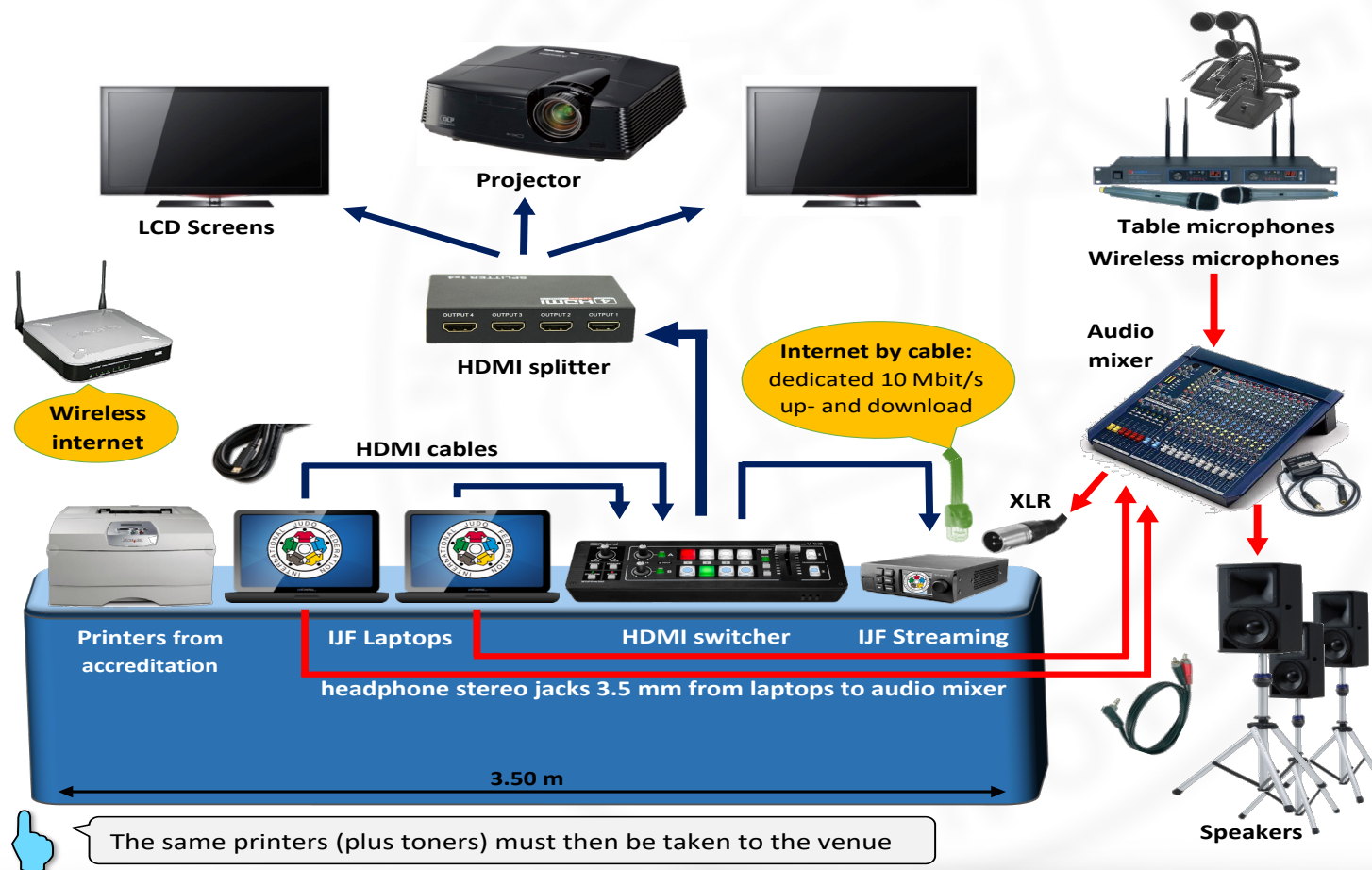
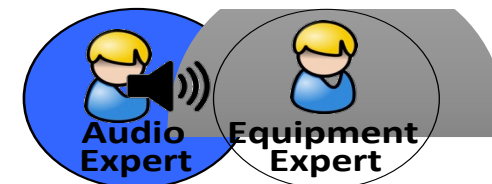
IT Requirements





### IT Requirements

# Draw Technical table



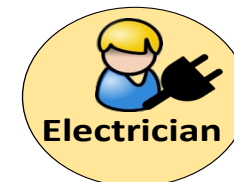
	Checklist	<input checked="" type="checkbox"/>
1	Projector (HDMI input, 3000 ANSI Lumen or more)	<input type="checkbox"/>
2	LCD screens* (50", HDMI)	<input type="checkbox"/>
1	HDMI switcher (3x in, 1x out, seamless switching)	<input type="checkbox"/>
1	HDMI splitter (1x in, 3x out)	<input type="checkbox"/>
6	Cabled microphones	<input type="checkbox"/>
2	Wireless microphones	<input type="checkbox"/>
1	Audio mixer (+cables)	<input type="checkbox"/>
	Speakers (+cables)	<input type="checkbox"/>
3	Audio cables	<input type="checkbox"/>
3	Ground loop isolators (for audio signal from laptops)	<input type="checkbox"/>
	HDMI cables	<input type="checkbox"/>
	Internet wireless	<input type="checkbox"/>
	Internet by cable (10 Mbit/s up- and download)	<input type="checkbox"/>
2	Copy machines (50 ppm or faster, with sorting function)	<input type="checkbox"/>



## IT Requirements

# Power

## for Referee Replay + Streaming



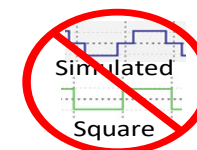
The electricity planning for the whole event must be done by experts using professional power distribution equipment. No line is allowed to come from a simple wall plug!



6x

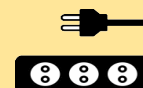
### 6x Uninterruptible Power Supplies (UPS):

- Min. power each UPS: 980 Watts / 1440 VA
- Waveform Type: pure Sine wave



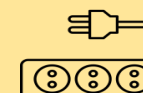
### Exclusive power lines:

- 2x streaming studio (different phase/circuit than lighting equipment!)
- 1x Event IT
- 2x Referee replay
- 1x IJF TV team



### Multi-outlet power strips:

- With 5 or more plugs each
- No switches



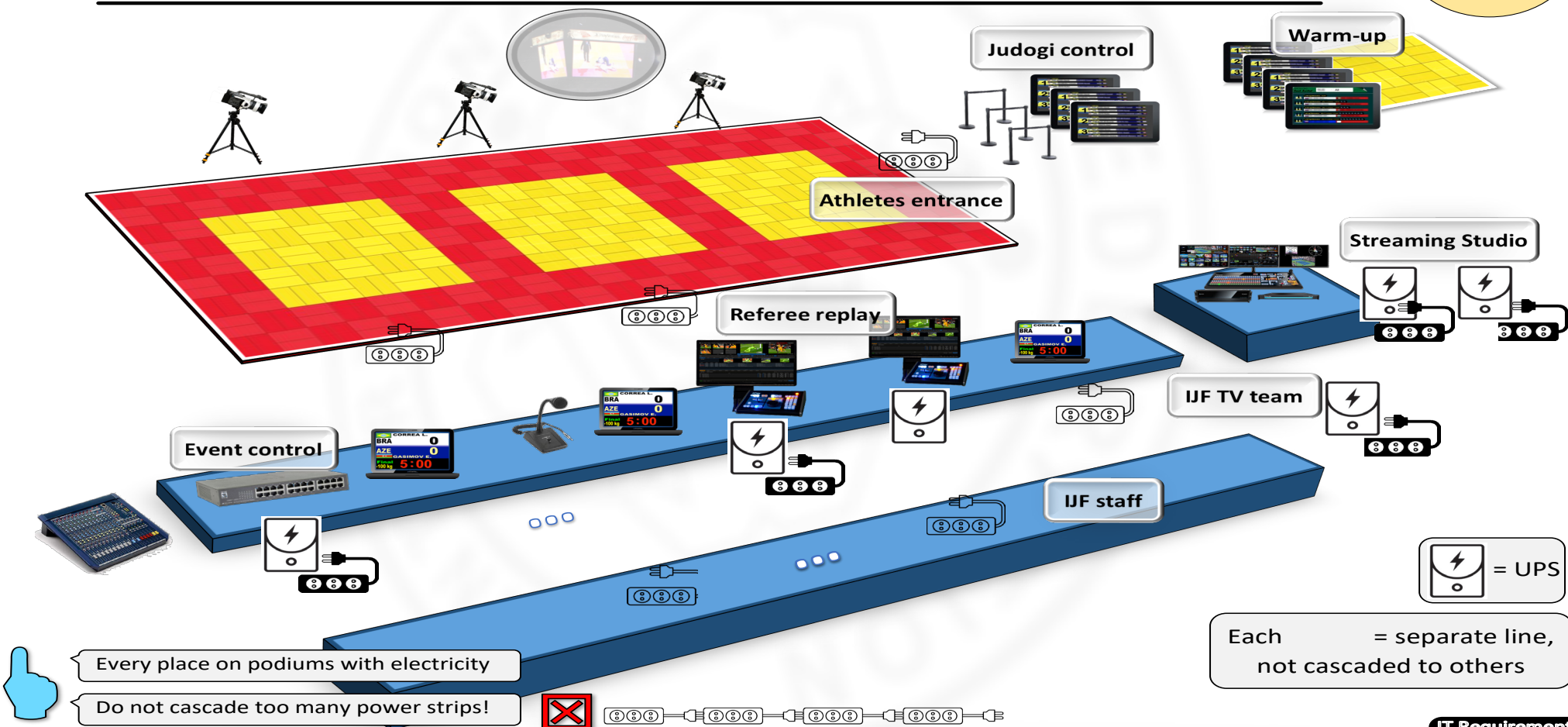
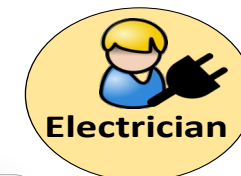
	Checklist	<input checked="" type="checkbox"/>
6	UPS as specified	<input type="checkbox"/>
	Multi-outlet power strips	<input type="checkbox"/>
	Power cable extensions	<input type="checkbox"/>





## IT Requirements

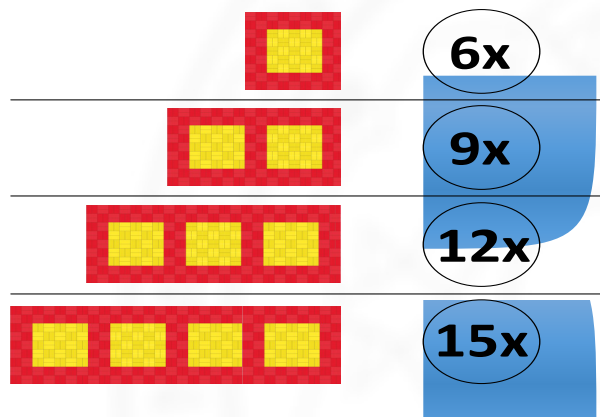
# Electricity points





## IT Requirements

# Laptops



### local IP 192.168.2.x

Location	x
IJF Server	3
Scoreboard	11, 12, 13,...
Judogi control	21, 22, 23,...
Warm-up	31, 32, 33,...

Subnet: 255.255.255.0

Gateway: empty

DNS: empty

#### Hardware Requirements:

- Up-to-date model
- For scoreboards:
  - 8 GB RAM
  - Resolution 1920x1080
- 200 GB disk space free
- Network input
- HDMI output
- Mouse

#### Operating System Requirements:

- **MS Windows 10 Professional**
- **English** language version and keyboard
- Clean installation
- No login password
- Windows firewall: file and printer sharing exception enabled
- No security suite/Antivirus software/3<sup>rd</sup> party firewall installed
- Screensaver/power saver disabled
- Reduced screen brightness on battery





## IT Requirements

# Monitors for Referee Replay + Streaming



14x

HDMI input



### All TFT monitors:

- Size: 23"-26"
- Resolution: 1920x1080 Full HD
- Format 16:9
- Input: HDMI

### Checklist

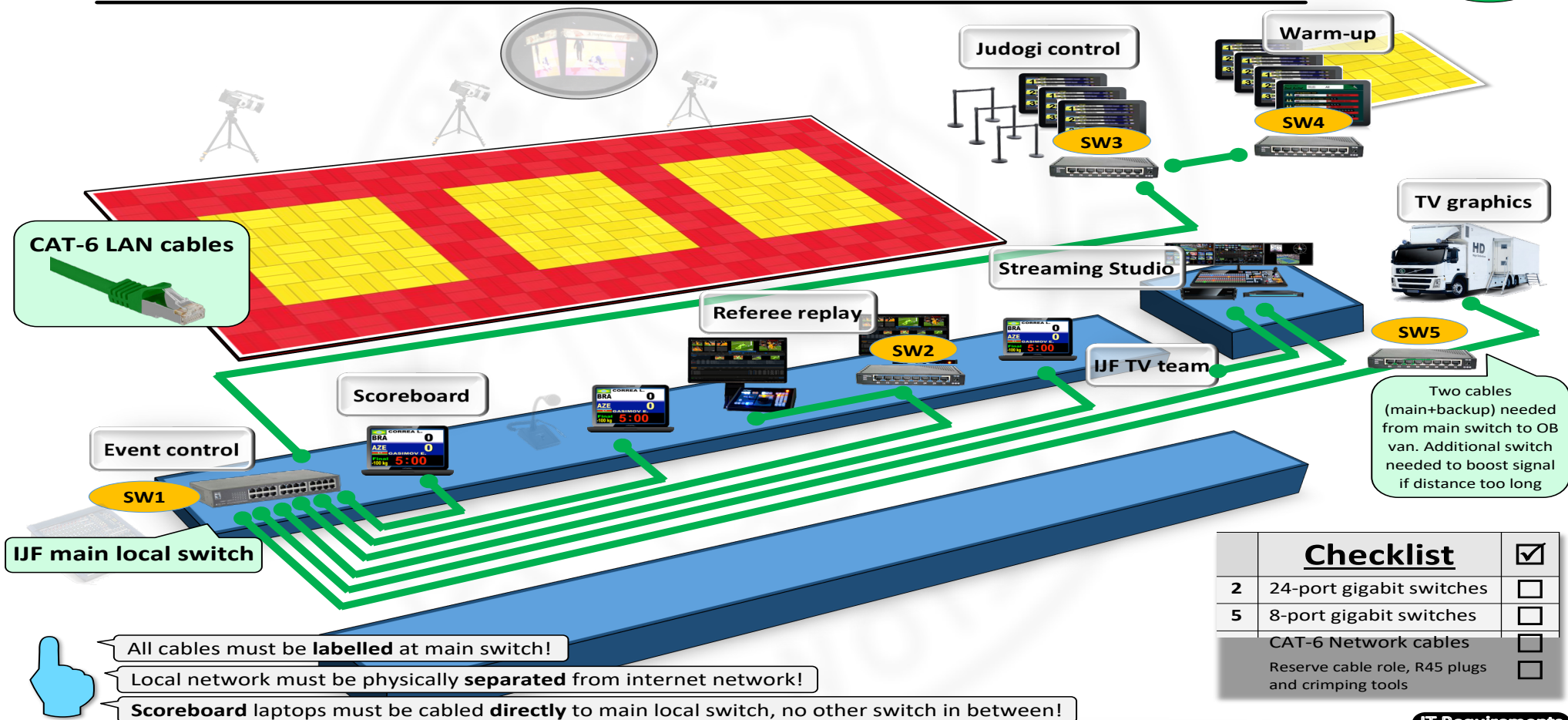
- 14 ☒ Full-HD TFT monitors with HDMI input

IT Requirements



## IT Requirements

# Local Network



IT Requirements





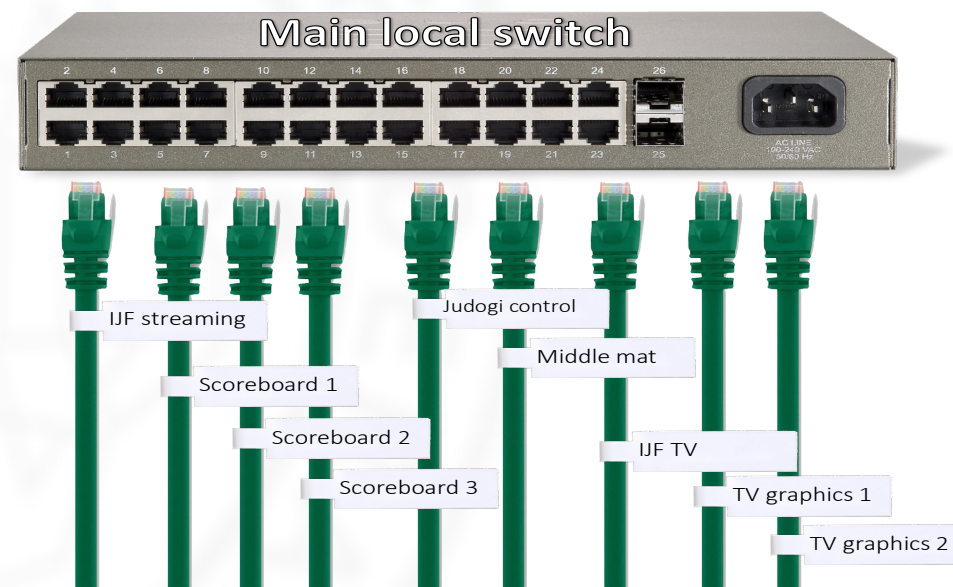
## IT Requirements

# Local Network



Network switches			<input type="checkbox"/>
SW1	Main local switch (24 port)		<input checked="" type="checkbox"/>
SW2	Middle-mat local switch (8 port)		<input type="checkbox"/>
SW3	Judogi-control local switch (8 port)		<input type="checkbox"/>
SW4	Warm-up area local switch (8 port)		<input type="checkbox"/>
SW5	Optional: TV-graphics local switch (4 port)		<input type="checkbox"/>

Order of cabling			<input type="checkbox"/>
1	Cable from main local switch to <b>IJF streaming studio</b> place		<input type="checkbox"/>
2	Cables from main local switch to <b>scoreboard laptops</b> mat 1, 2, 3, ...		<input type="checkbox"/>
3	Cable from main local switch to <b>judogi-control local switch</b>		<input type="checkbox"/>
4	Cables from judogi-control switch to <b>judogi-control laptops</b>		<input type="checkbox"/>
5	Cable from judogi-control switch to <b>warm-up area local switch</b>		<input type="checkbox"/>
6	Cables from warm-up area switch to <b>warm-up area laptops</b>		<input type="checkbox"/>
7	Cable from main local switch to <b>middle-mat local switch</b>		<input type="checkbox"/>
8	Cables from middle-mat-switch to <b>IJF replay machines 1+2</b>		<input type="checkbox"/>
9	Cable and back-up cable from main local switch to <b>TV-graphics place</b> (using additional switch if distance too long)		<input type="checkbox"/>
10	Cable from streaming studio to <b>IJF TV team</b> place		<input type="checkbox"/>



### Key points:

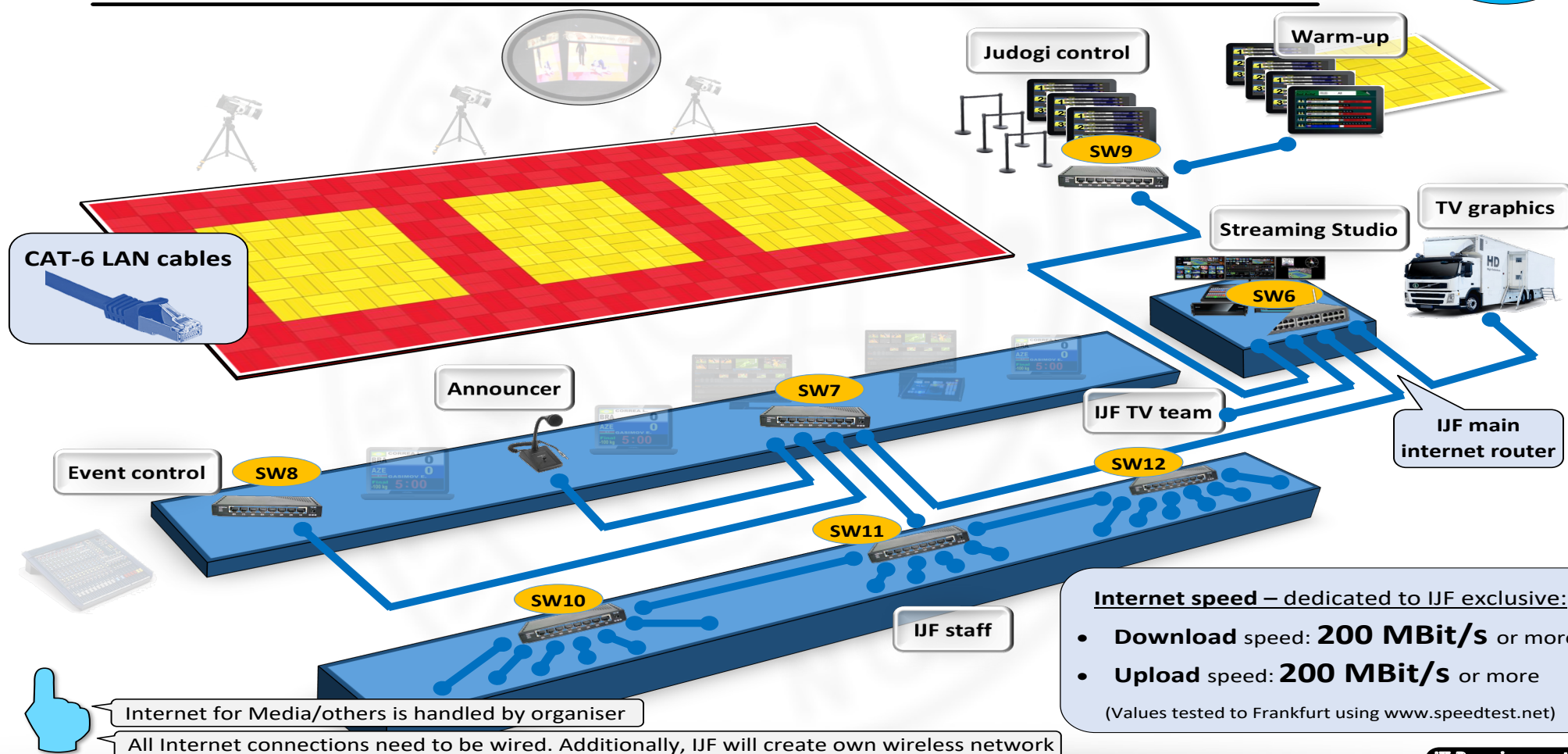
- Whenever a cable is ready:
  - Label with target location
  - Ping test
- No broken latches!





## IT Requirements

# Internet Network



**Internet speed – dedicated to IJF exclusive:**

- **Download** speed: **200 MBit/s** or more
- **Upload** speed: **200 MBit/s** or more

(Values tested to Frankfurt using [www.speedtest.net](http://www.speedtest.net))

**IT Requirements**





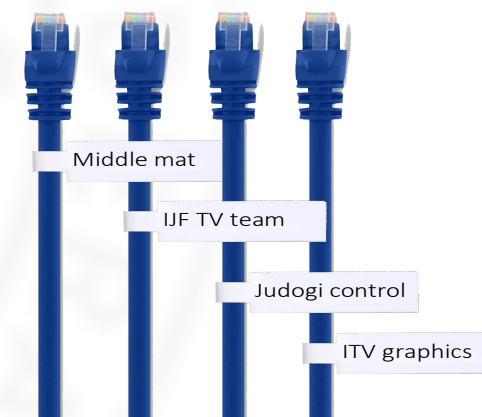
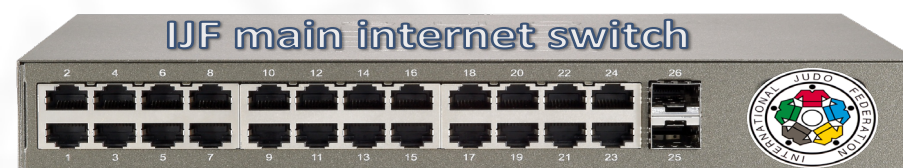
## IT Requirements

# Internet Network



Network switches (provided by IJF)			<input type="checkbox"/>
SW6	IJF main internet switch located at IJF streaming studio	<input checked="" type="checkbox"/>	
SW7	Middle-mat internet switch (8 port)	<input type="checkbox"/>	
SW8	Event control internet switch (8 port)	<input type="checkbox"/>	
SW9	Judogi-control internet switch (8-port)	<input type="checkbox"/>	
SW10-12	Staff internet switches (8 port)	<input type="checkbox"/>	

Order of cabling			<input type="checkbox"/>
11	Cable from main internet switch to <b>middle-mat internet switch</b>	<input type="checkbox"/>	
12	Cables from middle-mat internet switch to <b>speakers place</b>	<input type="checkbox"/>	
13	Cable from middle-mat switch to <b>event control</b> place	<input type="checkbox"/>	
14	Cable from middle-mat internet switch to <b>staff internet switches</b>	<input type="checkbox"/>	
15	Six cables from each staff internet switches to nearby <b>IJF staff</b> places	<input type="checkbox"/>	
16	Cable from main internet switch to <b>IJF TV team</b> place	<input type="checkbox"/>	
16	Cable from main internet switch to <b>TV graphics</b> in OB van	<input type="checkbox"/>	
18	Cable from main internet switch to <b>judogi-control</b> area	<input type="checkbox"/>	
19	Cables from judogi control internet switch to <b>warm-up</b> place (TBC)	<input type="checkbox"/>	



### Key points:

- Whenever a cable is ready:
  - Label with target location
  - Ping test
- No broken clips

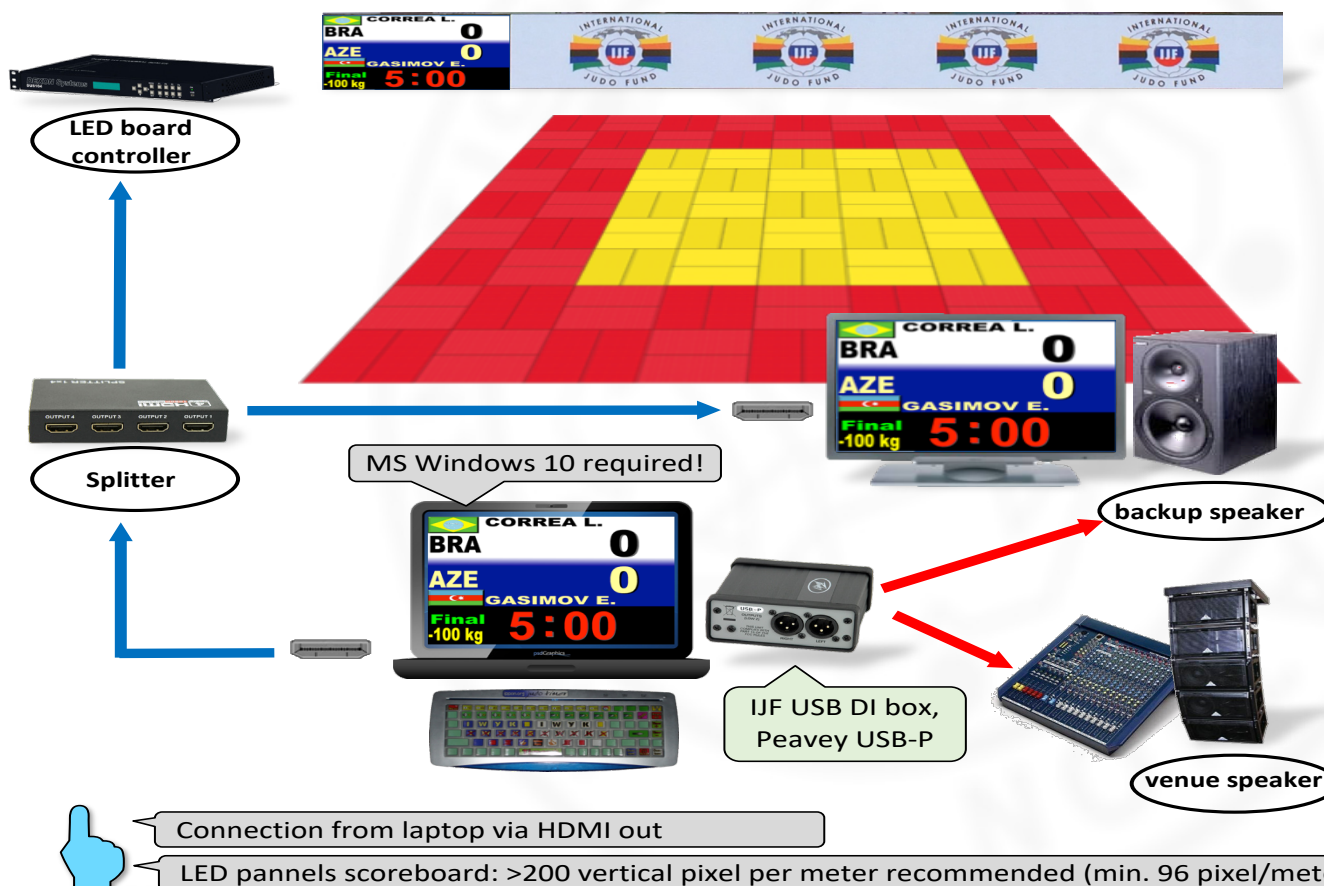


For main internet line do not use IP 192.168.2.x as it is reserved for the local network!



## IT Requirements

# Scoreboard Setup



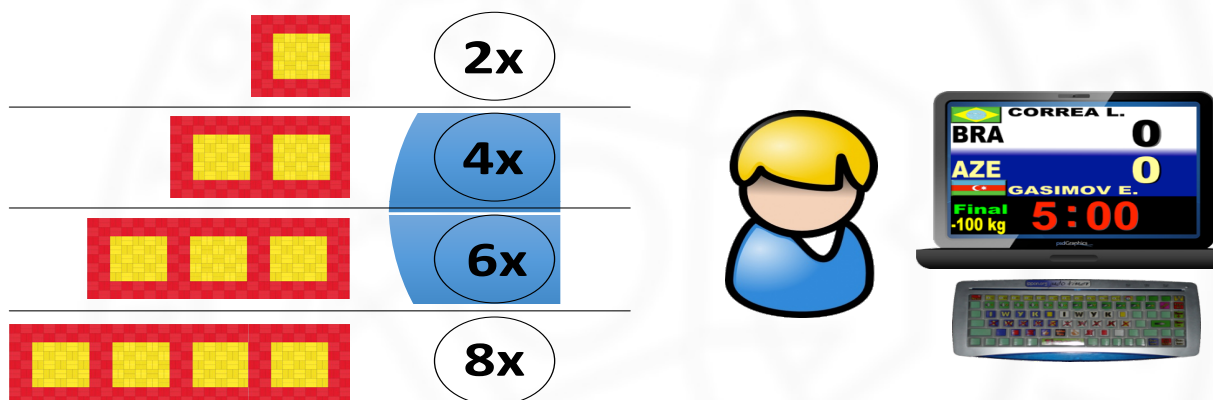
	Checklist	<input checked="" type="checkbox"/>
1	LED screen 55" or bigger 16:9, HDMI input	<input type="checkbox"/>
1	LED board controller	<input type="checkbox"/>
1	converter HDMI to LED board input (if needed)	<input type="checkbox"/>
1	HDMI Splitter (1x in, 2x out)	<input type="checkbox"/>
1	Laptop	<input type="checkbox"/>
1	Scoreboard keyboard	<input type="checkbox"/>
	HDMI cables	<input type="checkbox"/>
1	Big active speaker	<input type="checkbox"/>
	XLR audio cables (from laptop to backup speaker and venue mixer)	<input type="checkbox"/>





## IT Requirements

# Scoreboard operators



### Scoreboard operators from local organiser:

- $\geq 18$  years old
- English speaking
- Judo referee license

### Introduction and briefing:

New users: Day before start of competition at 19:00 in the venue

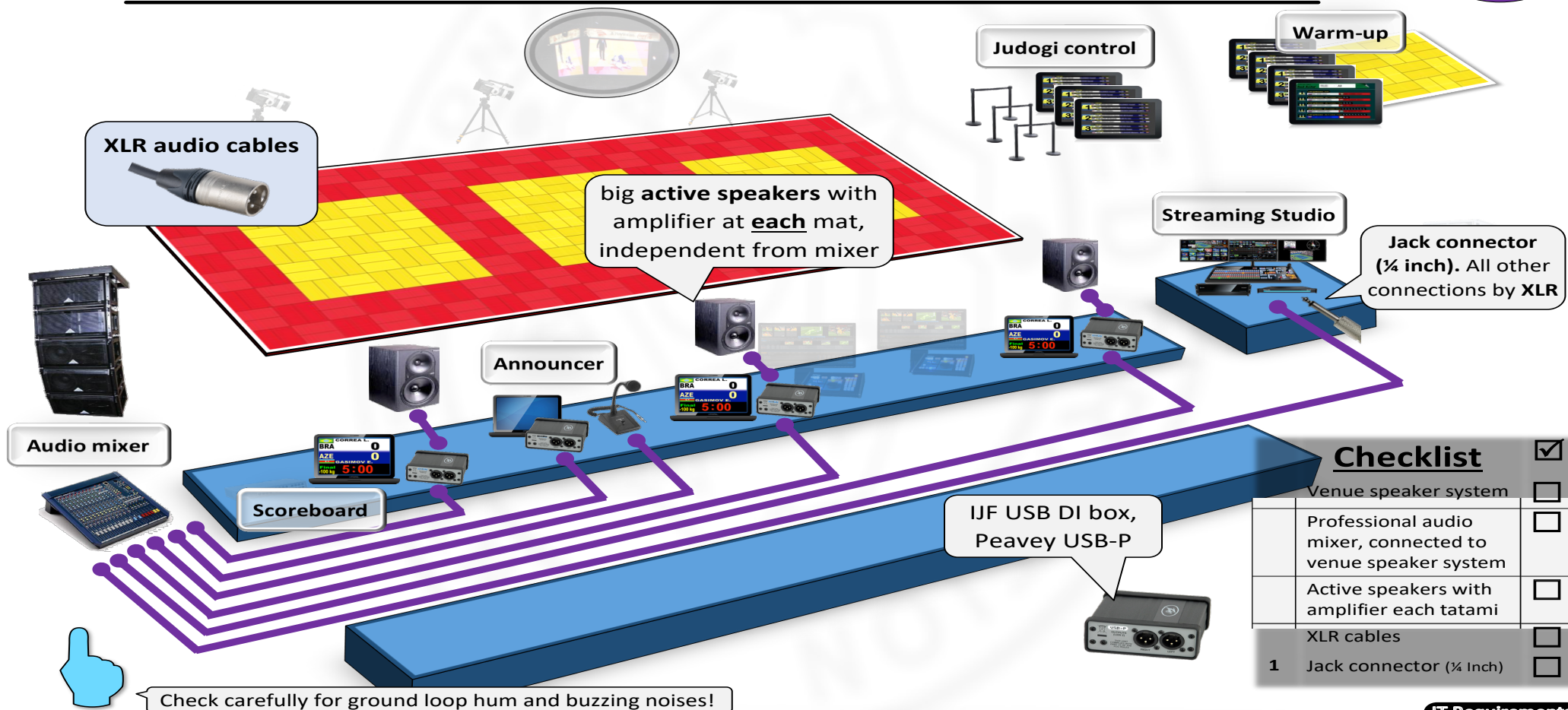
Experienced: First day of competition, one hour before start in venue

Checklist		<input checked="" type="checkbox"/>
	List of names of all scoreboard operators	<input type="checkbox"/>



## IT Requirements

# Gong & Audio set-up



### Checklist

	Venue speaker system	<input checked="" type="checkbox"/>
	Professional audio mixer, connected to venue speaker system	<input type="checkbox"/>
	Active speakers with amplifier each tatami	<input type="checkbox"/>
	XLR cables	<input type="checkbox"/>
1	Jack connector (¼ Inch)	<input type="checkbox"/>

IT Requirements





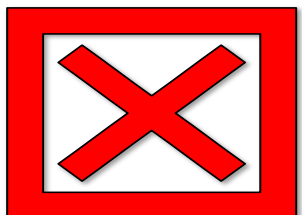
## IT Requirements

# Gong & Audio set-up



At each mat: Additional big **active speakers** with **amplifier** and **XLR input**

- Used solely for gong signals from each mat as backup
- Directly connected to DI boxes from scoreboard laptops
- Gong signal must be heard in venue with noisy crowd



IT Requirements

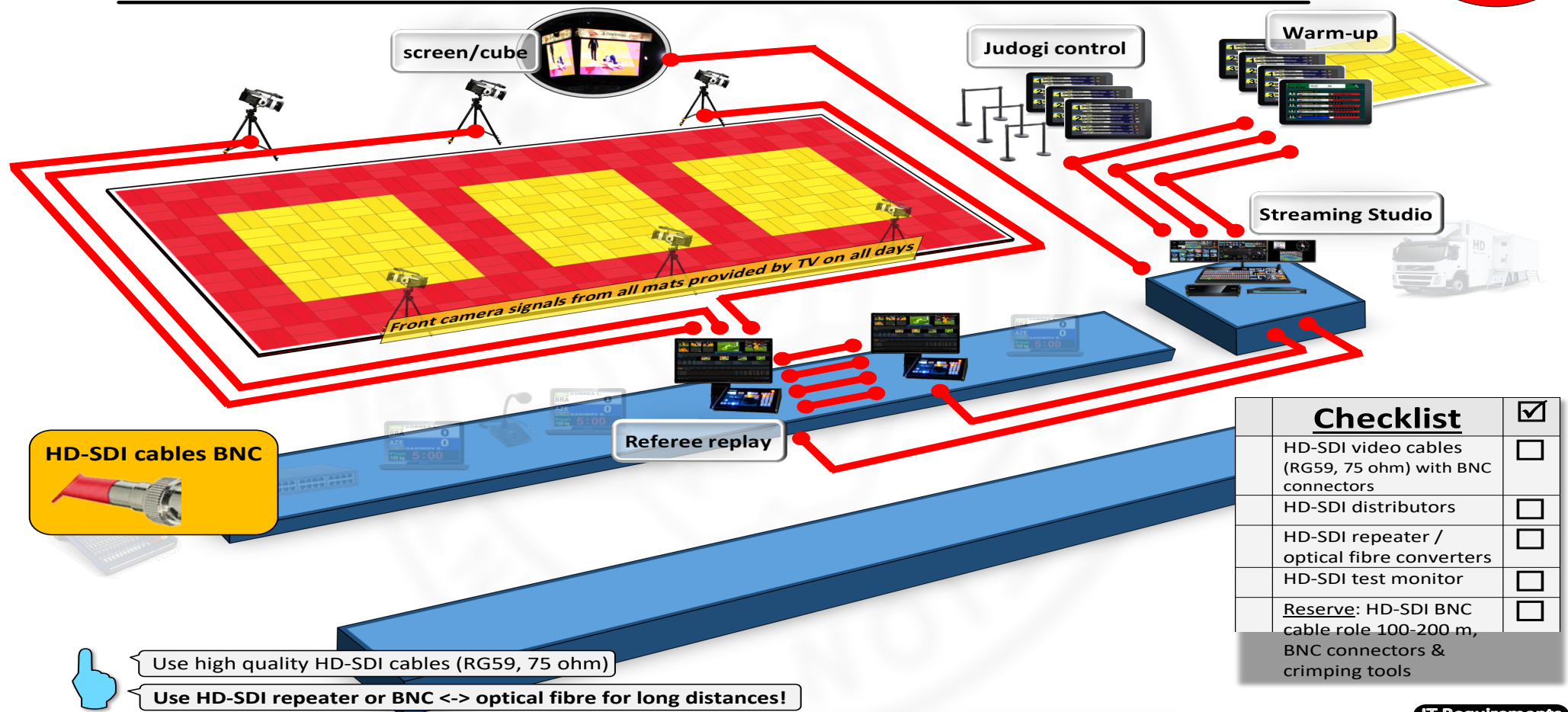




## IT Requirements

# Video cabling organiser

Option 1: when TV is providing front camera signals from all mats on all days

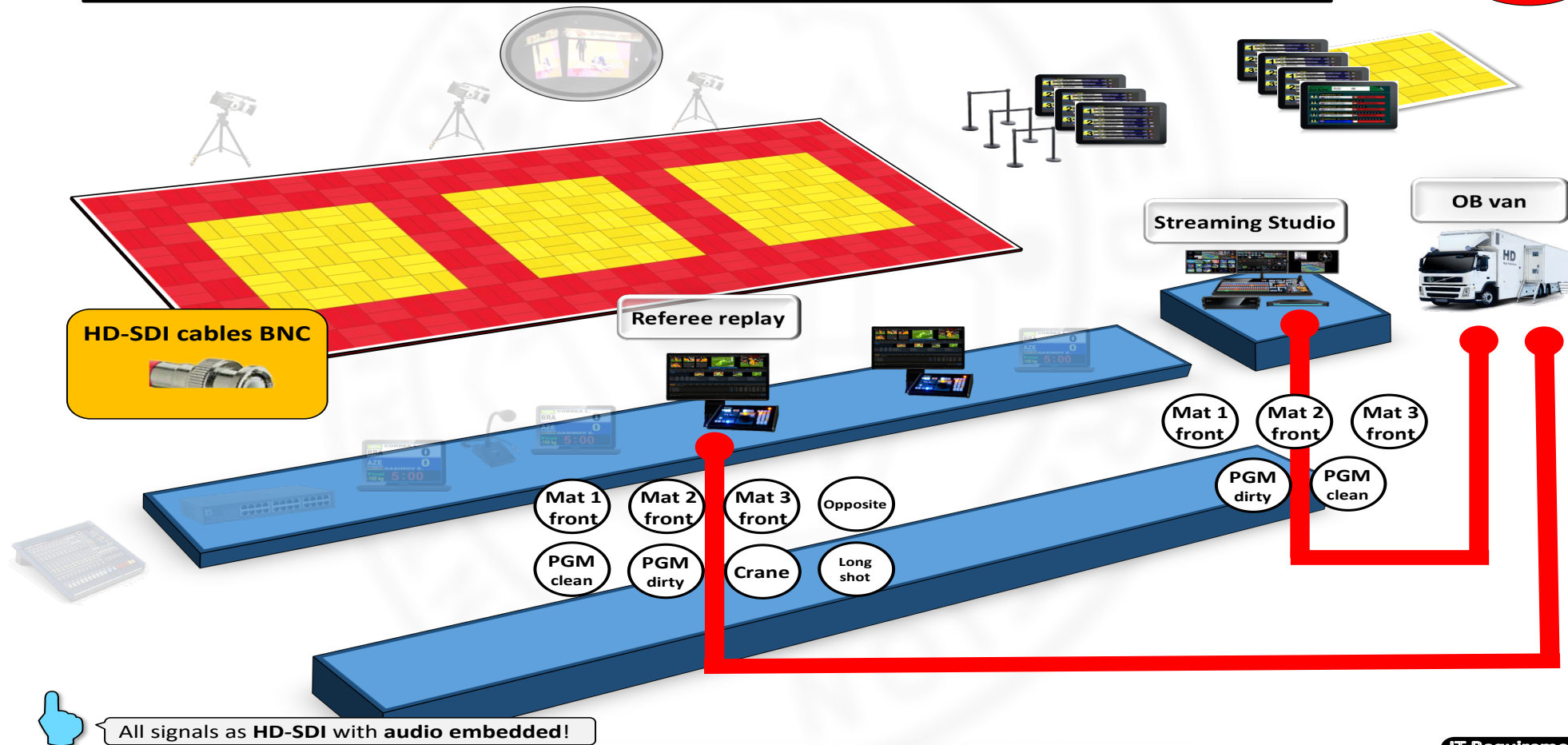






## IT Requirements

# Video signals from TV



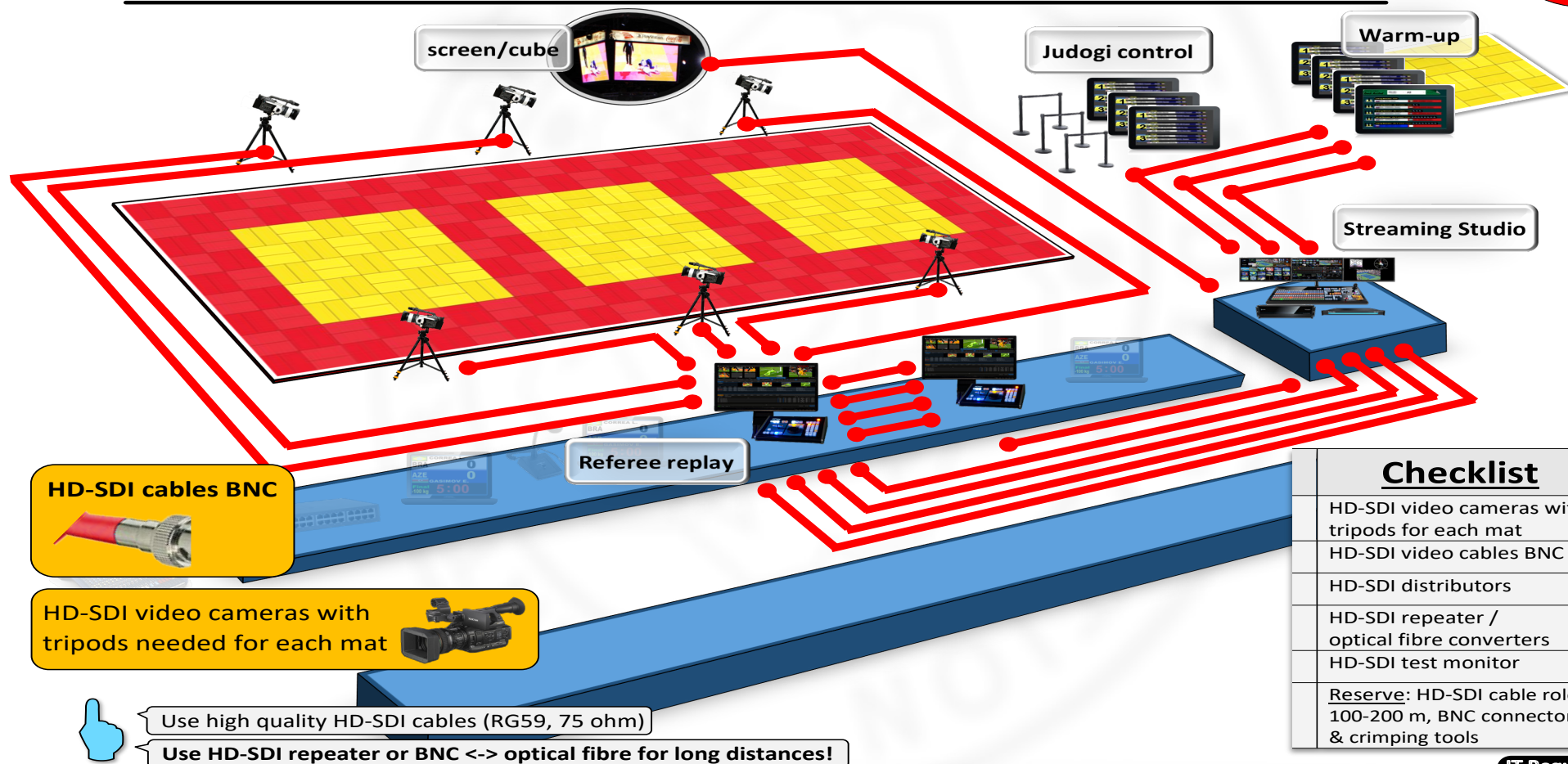
IT Requirements



## IT Requirements

# Video cabling organiser

Option 2: when front camera signals are **NOT** provided by TV for the entire event



### Checklist

HD-SDI video cameras with tripods for each mat	<input type="checkbox"/>
HD-SDI video cables BNC	<input type="checkbox"/>
HD-SDI distributors	<input type="checkbox"/>
HD-SDI repeater / optical fibre converters	<input type="checkbox"/>
HD-SDI test monitor	<input type="checkbox"/>
<u>Reserve:</u> HD-SDI cable role 100-200 m, BNC connectors & crimping tools	<input type="checkbox"/>

IT Requirements





## IT Requirements

# Video camera operators

Referee Replay  
+ Streaming

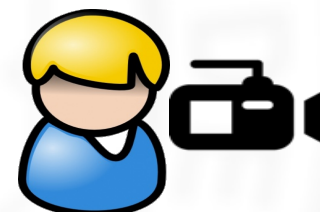


With TV covering front mats



Without TV covering front mats

	6x	8x
	8x	12x
	6x	12x
	8x	16x



### Camera operators from local organiser:

- >=18 years old
- English speaking
- Judo background

### Introduction and briefing:

First day of competition, one hour before start in venue

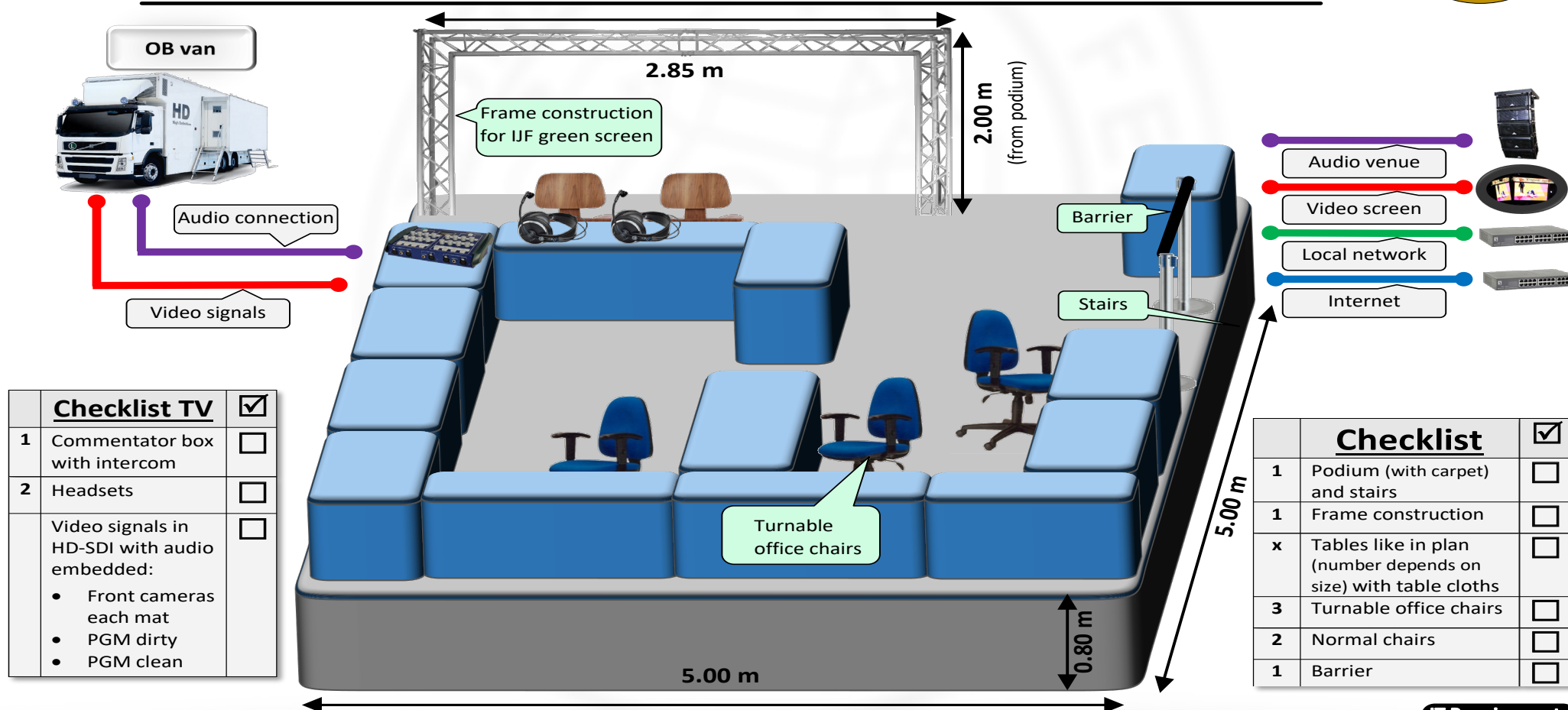
### Checklist

	<input checked="" type="checkbox"/>
List of names of all camera operators	<input type="checkbox"/>



## IT Requirements

# Streaming Studio



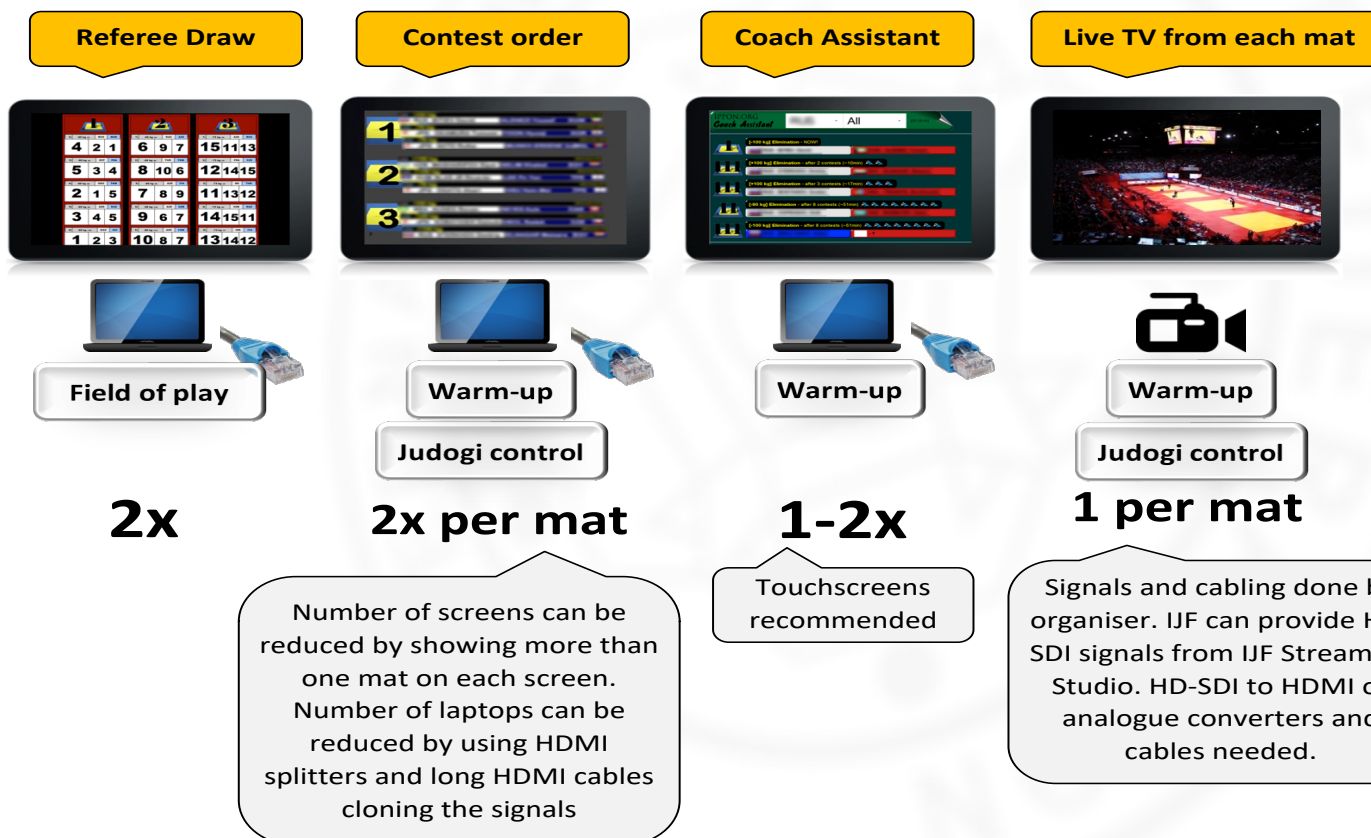
IT Requirements





## IT Requirements

# Information system



	Checklist	<input checked="" type="checkbox"/>
	LCD screens size 50" or more	<input type="checkbox"/>
	Touchscreens for coach assistant	<input type="checkbox"/>
	Laptops connected to local network	<input type="checkbox"/>
	HDMI cables	<input type="checkbox"/>
	Video cables	<input type="checkbox"/>

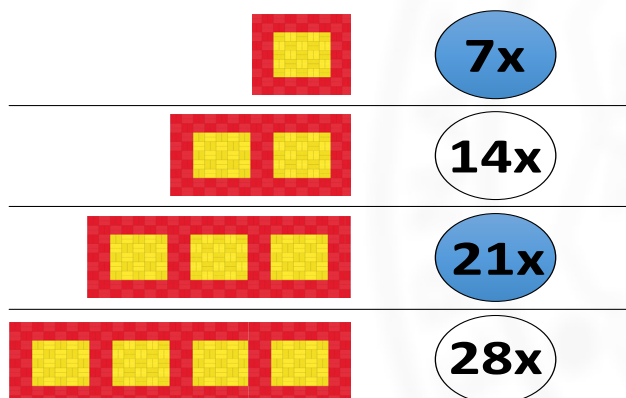


## IT Requirements

# Referee Radio System



Only needed for countries where the IJF radios are not allowed to use!



+



+



Each tatami needs it's own frequency!

### Checklist

Radios



Security headset



Charger

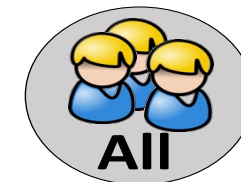






## IT Requirements

# After competition...



## ...keep running:



### Electricity



### Internet



### Lights

After the competition is finished our teams still need time to finalise the work (interviews, video highlight editing, news uploading etc.)

Therefore, it is essential that **electricity**, **internet** and **lights** are kept on and intact until the last working person from IJF gives green light that it is no longer needed.



**Important:** Please inform **all** persons and companies involved in the dismantling on the **last day**!

Have the **save storage room** ready for all IJF IT equipment cases!

Make sure you have agreed with the logistic company the **pick-up time** of the IJF IT equipment!