

## **ISSF REQUIREMENTS**

### **TV PRODUCTION AND INTERNET STREAMING**

#### **TECHNICAL REQUIREMENTS**

##### **TV LEVEL 1 – CAMERA PLAN AND EQUIPMENT REQUIREMENTS**

###### **RIFLE / PISTOL (12 cameras)**

1 OB-Van 1080i 50  
2 Power generators (main and back-up) for the OB-van  
Video Switcher  
Audio Mixer

###### **OB-van cameras:**

#5 - SSM, x80, on tripod  
#8 - SSM, x14,ENG  
#9 - ENG camera on RF channel with x14 lens with 1-way IFB  
#10 - x22 ontripod  
#11 – crane camera x14

###### **4 mini cameras:**

#1,2 3, 4 - x22 or similar, with zoom, with robotic heads, on the floor

###### **2 SSM cameras (75-150 fps)**

#6 and #7 - SSM (75-150 fps), x40 lens, on robotic heads, raised from the floor by 120 centimeters

###### **1 crane**

#11 - crane (6 meters) with OB-van camera, wish zoom, with tilt/pan

All cameras to have Tally and talk-back

3 EVS (3 x 6-2 all in network) with X-files

###### **Audio:**

International sound microphones and stands  
Radio transmitters/receivers, radio sets, alkaline batteries  
Digitalrecorder/playback  
Commentator unit with 2 headsets - 1 pcs  
External intercom – 2pcs

###### **Monitors:**

7 monitors 1920x1080 30 inches +

###### **Internet streaming:**

PGM with International sound + commentary (MIX)  
Streaming to **LiveStream + Youtube + Facebook**

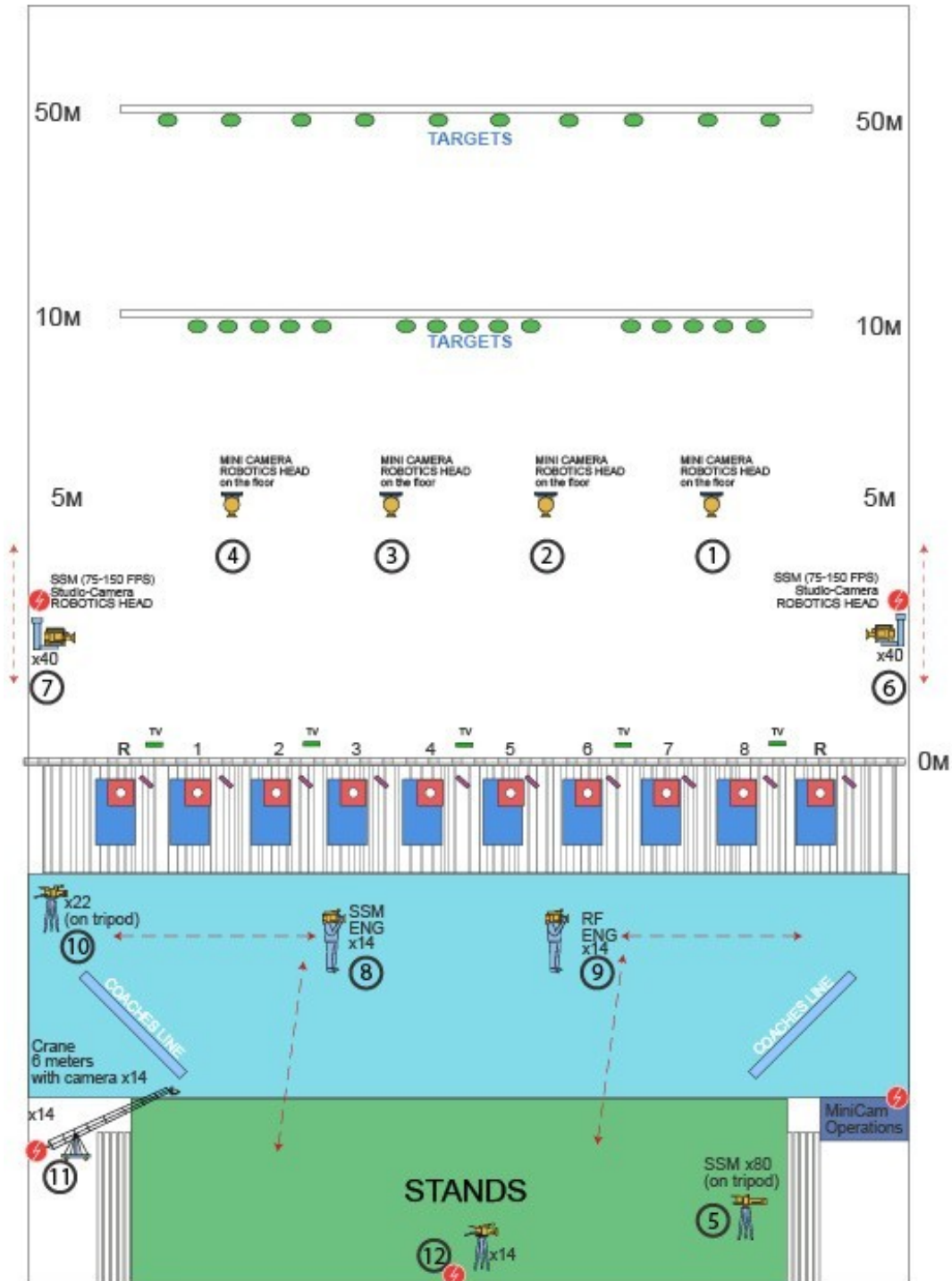
###### **Graphics:**

Graphics to be applied by ISSF partners in the OB-van and on the final range  
Provide Key+Fill+Reference, Ethernet cable for data connection, LAN cables

###### **Others:**

HDD recorder  
USB recorder (<10 mbit)  
Yellow Jackets  
Walkie Talkie  
Engineering Staff  
SNG

# CAMERA PLAN (12 cameras)



## **SHOTGUN (10 cameras)**

1 OB-Van 1080i 50  
1 SNG  
2 Power generators (main and back-up) for the OB-van  
VideoSwitcher  
Audio Mixer

### **OB-Van cameras:**

#1 - x80 **SSM** (75fps) on tripod (with wheels)  
#2 - x22 on tripod  
#3 - x80 **SSM** (75fps) on tripod  
#4 - x40 on tripod (with wheels)  
#5 - x80 **SSM** (75fps) on tripod (with wheels)  
#6 - x14ENG  
#7 - x14ENG  
#8 - x14 on RF Steadicam  
#9 - x14 on a Crane  
#10 - QuadCopter streaming 1080i LIVE (Phantom Inspire or better. Phantom 4 not acceptable)  
1 Crane 6 meters with robotics head (including dolly operator)  
1 Steadicam on RF channel with IFB for cameraman  
All cameras to have Tally and talk-back  
3 EVS (3 x 6-2 all in network) with X-files

### **Audio:**

International sound microphones and stands  
Radio transmitters/receivers, radio sets, alkaline batteries  
Digitalrecorder/playback  
Commentator unit with 2 headsets - 1 pcs  
External intercom – 2pcs

### **Monitors:**

7 monitors 1920x1080 30 inches +

### **Internet streaming:**

PGM with International sound + commentary (MIX)  
Streaming to **LiveStream + Youtube + Facebook**

### **Graphics:**

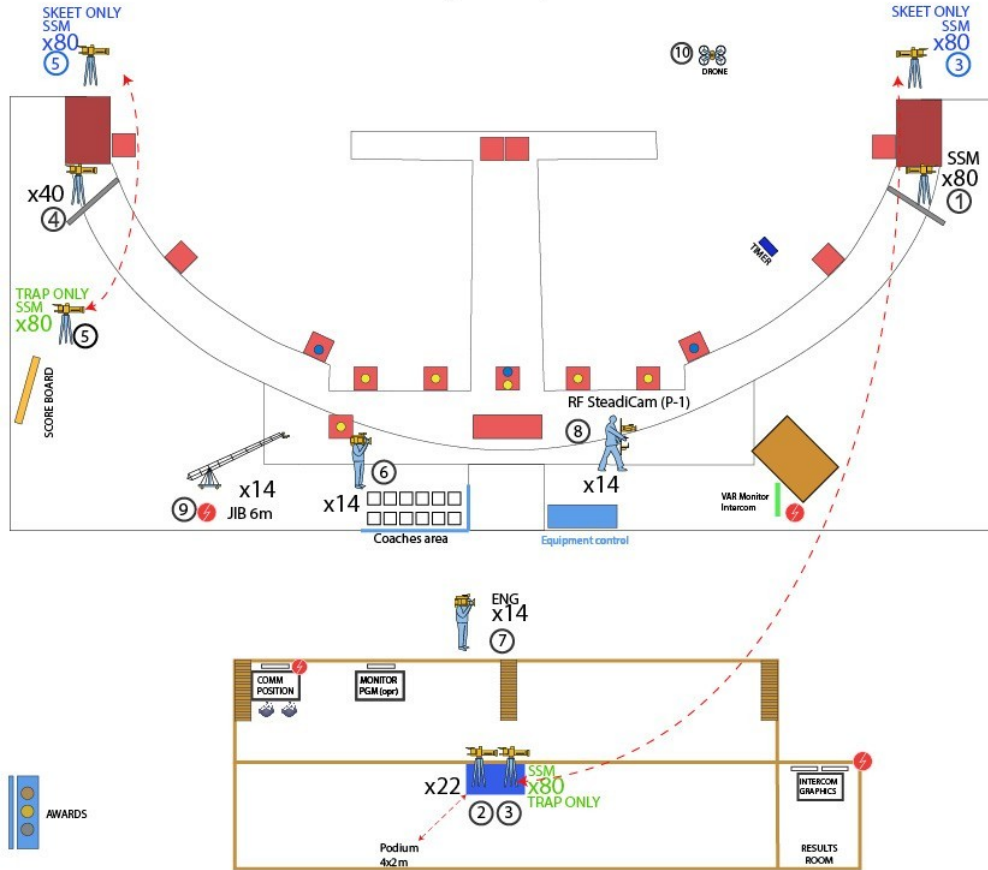
Graphics to be applied by ISSF partners in the OB-van and on the final range  
Provide Key+Fill+Reference, Ethernet cable for data connection, LAN cables

### **Others:**

HDD recorder  
USB recorder (<10 mbit)  
Yellow Jackets  
Walkie Talkie  
Engineering Staff  
SNG



### CAMERA PLAN (10 cameras)



## TV LEVEL 2 – CAMERA PLAN AND EQUIPMENT REQUIREMENTS

### RIFLE / PISTOL (9 cameras)

1 OB-Van 1080i 50  
2 Power generators (main and back-up) for the OB-van  
Video Switcher  
Audio Mixer

OB-van cameras:

- #5 - x80, SSM, on tripod
- #6 - x14, ENG
- #7 - x22, ontripod
- #8 - x14, crane camera
- #9 - x14, ontripod

4 Mini cameras:

- #1,2 3, 4 - x22 or similar, with zoom, with robotic heads, on the floor

1 crane

- #8 - crane (6 meters) with OB-van camera, wish zoom, with tilt/pan

All cameras to have Tally and talk-back

2 EVS (2 x 6-2 all in network) with X-files

### Audio:

International sound microphones and stands  
Radio transmitters/receivers, radio sets, alkaline batteries  
Digitalrecorder/playback  
Commentator unit with 2 headsets - 1 pcs  
External intercom – 2pcs

### Monitors:

7 monitors 1920x1080 30 inches +

### Internet streaming:

PGM with International sound + commentary (MIX)  
Streaming to **LiveStream + Youtube + Facebook**

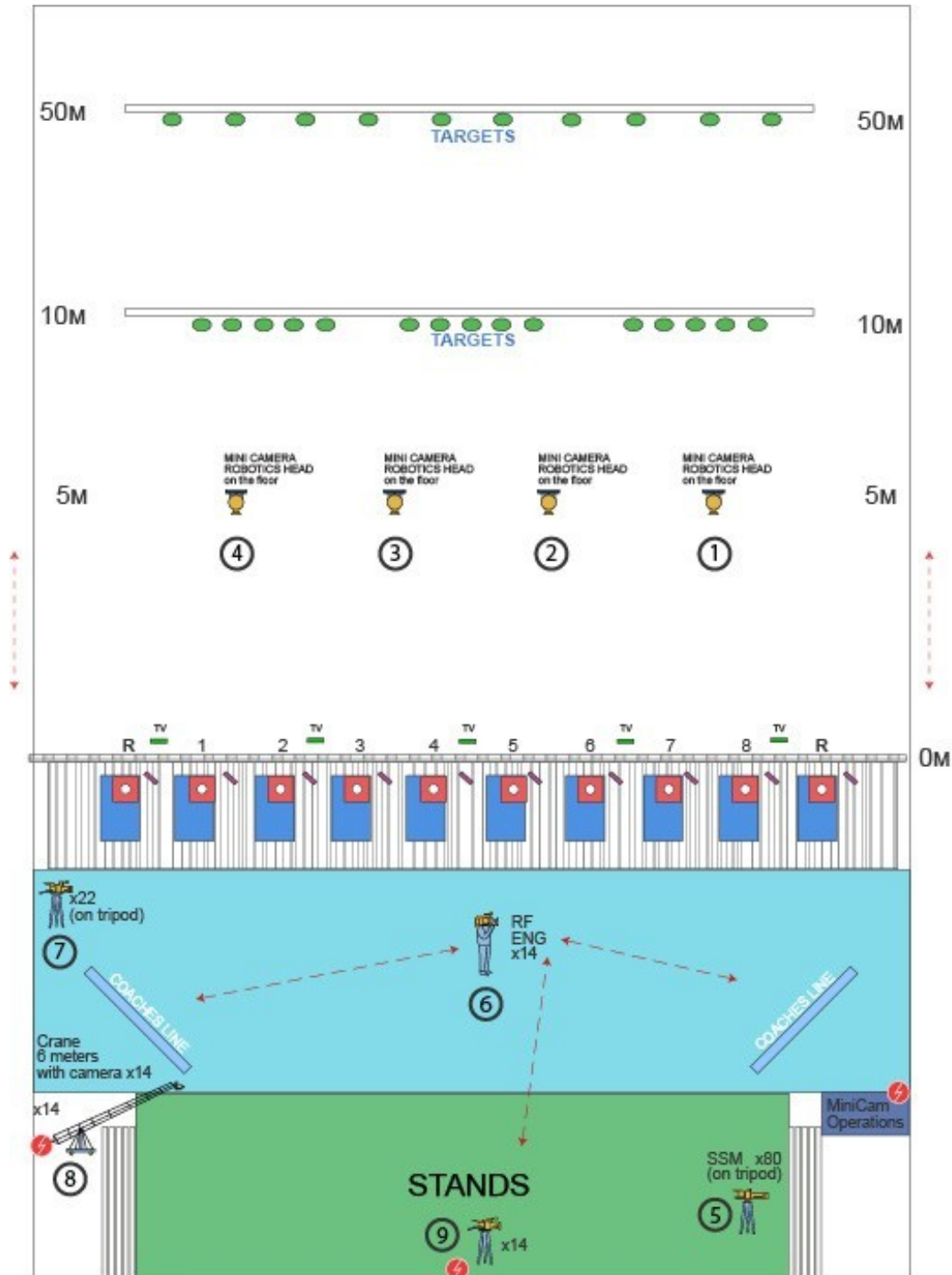
### Graphics:

Graphics to be applied by ISSF partners in the OB-van and on the final range  
Provide Key+Fill+Reference, Ethernet cable for data connection, LAN cables

### Others:

HDD recorder  
USB recorder (<10 mbit)  
Yellow Jackets  
Walkie Talkie  
Engineering Staff  
SNG

# CAMERA PLAN (9 cameras)



## **SHOTGUN (8 cameras)**

1 OB-Van 1080i 50  
1 SNG  
2 Power generators (main and back-up) for the OB-van  
VideoSwitcher  
Audio Mixer

### OB-Van cameras:

- #1 - x80 **SSM** (75fps) on tripod (with wheels)
- #2 - x22 on tripod
- #3 - x80 **SSM** (75fps) on tripod
- #4 - x40 on tripod (with wheels)
- #5 - x80 **SSM** (75fps) on tripod (with wheels)
- #6 - x14 ENG
- #7 - x14 on RF Steadicam
- #8 - x14 on a Crane

1 Crane 6 meters with robotics head (including dolly operator)  
1 Steadicam on RF channel with IFB for cameraman  
All cameras to have Tally and talk-back  
3 EVS (3 x 6-2 all in network) with X-files

### **Audio:**

International sound microphones and stands  
Radio transmitters/receivers, radio sets, alkaline batteries  
Digital recorder/playback  
Commentator unit with 2 headsets - 1 pcs  
External intercom – 2 pcs

### **Monitors:**

7 monitors 1920x1080 30 inches +

### **Internet streaming:**

PGM with International sound + commentary (MIX)  
Streaming to **LiveStream + Youtube + Facebook**

### **Graphics:**

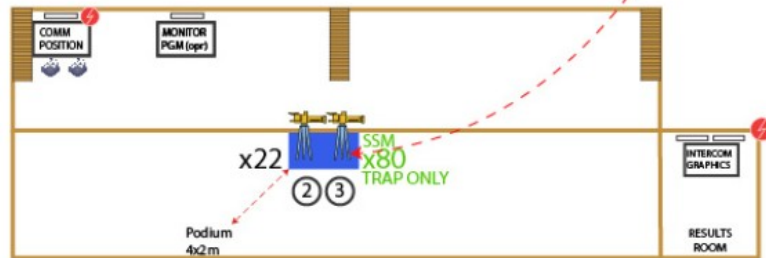
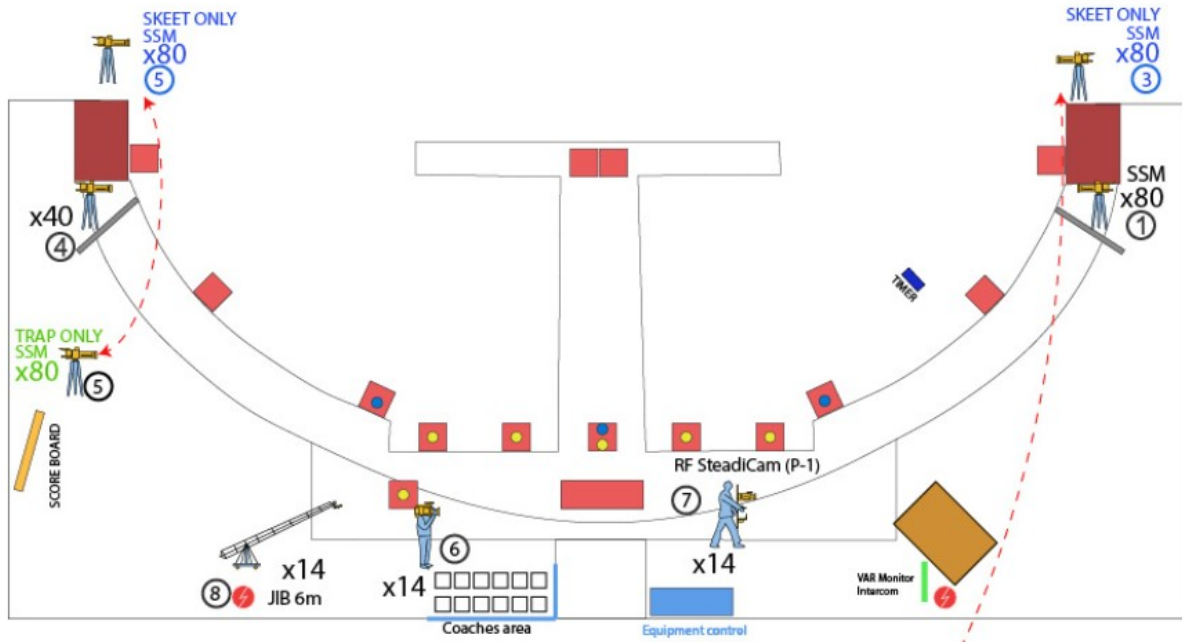
Graphics to be applied by ISSF partners in the OB-van and on the final range  
Provide Key+Fill+Reference, Ethernet cable for data connection, LAN cables

### **Others:**

HDD recorder  
USB recorder (<10 mbit)  
Yellow Jackets  
Walkie Talkie  
Engineering Staff  
SNG



### CAMERA PLAN (8 cameras)





## TV LEVEL 3 – CAMERA PLAN AND EQUIPMENT REQUIREMENTS

### RIFLE / PISTOL (6 cameras)

1 OB-Van 1080i 50  
2 Power generators (main and back-up) for the OB-van  
Video Switcher  
Audio Mixer

OB-van cameras:

- #3 - x80, SSM, on tripod
- #4 - x14, ENG
- #5 - x22, on tripod
- #6 - x14, on tripod

2 mini cameras:

- #1, 2 - x22 or similar, with zoom, with robotic heads, on the floor

All cameras to have Tally and talk-back

1 EVS (6-2) with X-files

### Audio:

International sound microphones and stands  
Radio transmitters/receivers, radio sets, alkaline batteries  
Digital recorder/playback  
Commentator unit with 2 headsets - 1 pcs  
External intercom – 2 pcs

### Monitors:

7 monitors 1920x1080 30 inches +

### Internet streaming:

PGM with International sound + commentary (MIX)  
Streaming to **LiveStream + Youtube + Facebook**

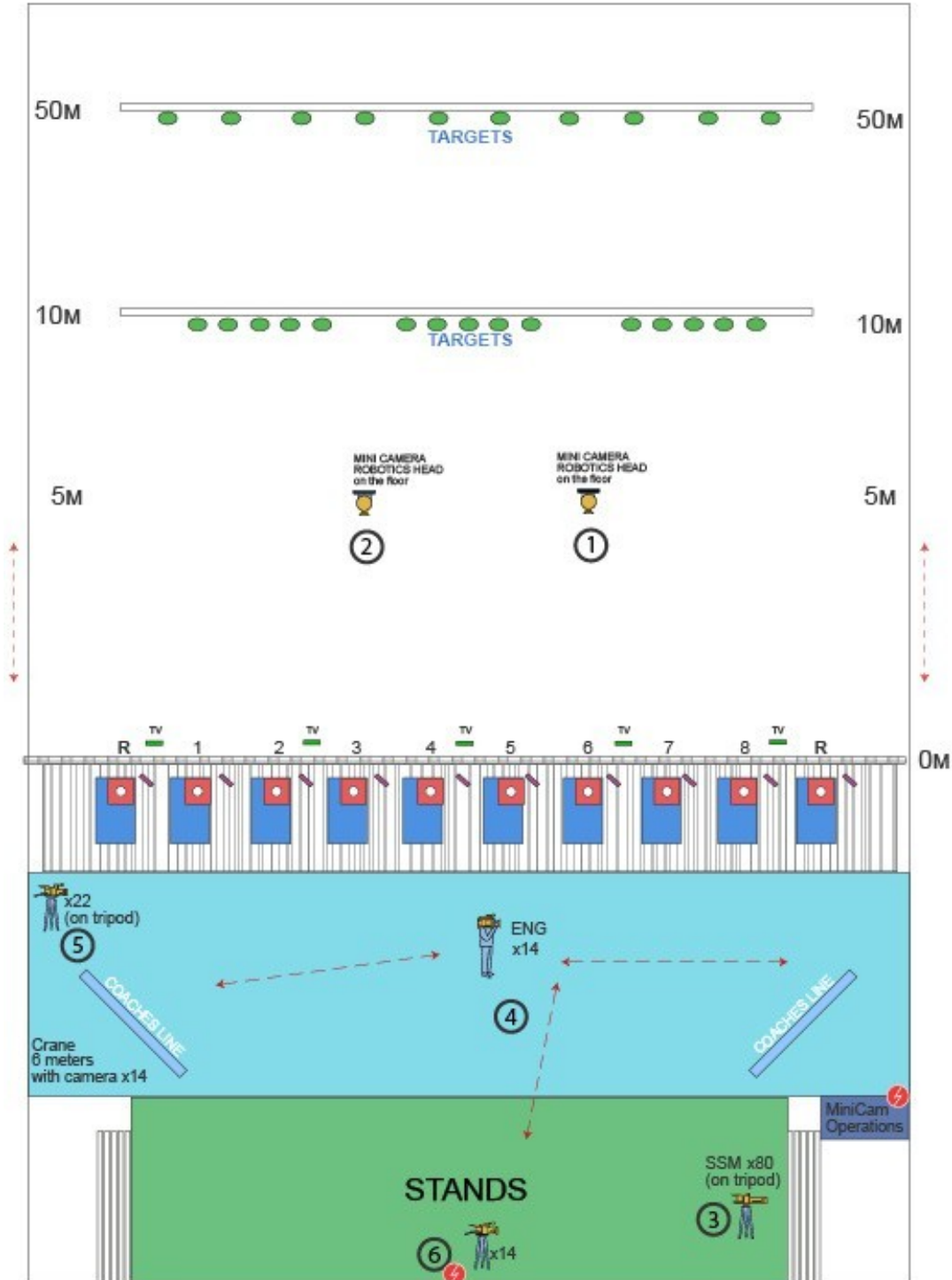
### Graphics:

Graphics to be applied by ISSF partners in the OB-van and on the final range  
Provide Key+Fill+Reference, Ethernet cable for data connection, LAN cables

### Others:

HDD recorder  
USB recorder (<10 mbit)  
Yellow Jackets  
Walkie Talkie  
Engineering Staff

# CAMERA PLAN (6 cameras)



## **SHOTGUN (5 cameras)**

1 OB-Van 1080i 50  
2 Power generators (main and back-up) for the OB-van  
Video Switcher  
Audio Mixer

OB-Van cameras:

- #1 – x42 on tripod (with wheels)
- #2 – x14 on tripod
- #3 – x42 **SSM** (75fps) on tripod
- #4 – x22 on tripod (with wheels)
- #5 - x14 ENG

All cameras to have Tally and talk-back  
1 EVS (6-2) with X-files

### **Audio:**

International sound microphones and stands  
Radio transmitters/receivers, radio sets, alkaline batteries  
Digitalrecorder/playback  
Commentator unit with 2 headsets - 1 pcs  
External intercom – 2pcs

### **Monitors:**

7 monitors 1920x1080 30 inches +

### **Internet streaming:**

PGM with International sound + commentary (MIX)  
Streaming to **LiveStream + Youtube + Facebook**

### **Graphics:**

Graphics to be applied by ISSF partners in the OB-van and on the final range  
Provide Key+Fill+Reference, Ethernet cable for data connection, LAN cables

### **Others:**

HDD recorder  
USB recorder (<10 mbit)  
Yellow Jackets  
Walkie Talkie  
Engineering Staff

CAMERA PLAN  
(5 cameras)

