

Judges and FIS Officials Video Adjudication Requirements for the FIS World Cup, the FIS World Championships and the Olympic Winter Games.

PARK & PIPE:

The FIS World Cups, FIS World Championships and Olympic Games in Slopestyle, Big Air and Halfpipe are judged by watching a television feed of the competitions. Based upon the event, the course and venue set-up, several feeds will be required as by ICR Rule 3406. Such feeds will be made available by the OC and common procedure is using the host broadcast as they produce the images. If the host broadcast is not willing or capable of providing such feeds the organiser must provide an alternative solution that can meet the needs and requirements.

SLOPESTYLE TV PRODUCTION FOR JUDGING PURPOSES

1. The Freeski and Snowboard Slopestyle competitions are always judged utilizing a television feed. Consequently, an adequate camera set up and television production is required and mandatory for training sessions (testing only), qualifications and finals (actual judging). The OC with the host broadcast will provide such feeds for the judges and an adequate set-up with monitors in the judges stand must be available.
2. It is essential that the TV and/or image production crew connects with the Contest Director prior to the event in order to establish the best camera angles and make sure that the produced feeds reflect the sport's needs. A proper coverage of the entire performance of each athlete is mandatory from start to the finish area.
3. Mistakes and/or missed tricks by TV or image production can incur in a re-run as the judges will not be able to perform their duty and deliver scores.

BIG AIR & HALFPIPE TV PRODUCTION FOR JUDGING PURPOSES

1. The Freeski and Snowboard Big Air and Halfpipe competitions can be judged directly from a stand placed appropriately (judges having a direct and standard visual of the field of play) and/or judged indirectly, with Judges stand placed not with a direct view of the course. In both cases a few cameras filming the contest are required and mandatory (details to be agreed with the FIS Contest Director). Therefore, an adequate set up with such cameras is required for training sessions (test only), qualifications and finals.
 - **Halfpipe:** a clean shot from the center back of the finish area needs to be provided. This camera and operator need to film consistently every competitor making sure that for every trick the coping of the pipe is kept in the shot and that the zoom out is steady and progressive. If host broadcaster cannot provide such shot, the OC must provide such operator and camera as well as provide the images in the judges stand.

- **Big Air:** a clean shot from take-off to landing where all the action is visible is required. Additional feed is required to show the take-off (view from behind the kicker) and the landing, to show all the imperfections of the tricks.
2. It is essential that the TV and or image production team connects to the judges and or the Contest director prior to the event to confirm the camera angles and make sure that the produced feeds reflect the sport's/judge's needs. A proper coverage of the entire performance of each athlete is mandatory.
 3. Mistakes and/or missed tricks by TV and or image production may result in a re-run as the judges will not be able to perform their duty.

Links to Examples for Big Air:

Atlanta Runs (good for replays, you can see from take off to landing).

<https://fisvideo.fis-ski.com/specialaccess/f2fbccecgf28fc325g1ad4abc1gc5d1a/fullscreen>
<https://fisvideo.fis-ski.com/specialaccess/a5ef84bbfe3a8c8gf42f8ee251aa6a83/fullscreen>
<https://fisvideo.fis-ski.com/specialaccess/f25613gd34f64c3c8a26129d88954ffg/fullscreen>

Beijing Runs (different angle but take off to landing)

<https://fisvideo.fis-ski.com/specialaccess/ee8775ee6f7a3eb4368a42qd69513g4c/fullscreen>
<https://fisvideo.fis-ski.com/specialaccess/fc37915g7b6eb1a3a679e4df8da8eef5/fullscreen>
<https://fisvideo.fis-ski.com/specialaccess/9b23f182b1d9eddd31e961g119957g5g/fullscreen>

Links to Examples for Halfpipe:

Copper USA runs:

<https://fisvideo.fis-ski.com/specialaccess/68e81fbd2cb3d2f5d279462aga62a78f/fullscreen>
<https://fisvideo.fis-ski.com/specialaccess/dfg8999828111e76bab3aa95g45f78f6/fullscreen>
<https://fisvideo.fis-ski.com/specialaccess/2gfe1ef234e957a9cb7a9dc15c2c9939/fullscreen>

MONITORS, SIGNALS & DEDICATED CAMERAS REQUIREMENTS

For events' coordination and judging purposes, the following monitors (and/or cameras) of an adequate dimension and with an appropriate connection to the international world feed (with graphics) are required at the venues.

The main chosen feed will be delivered to the monitors in the judges stand as well as to the replay system whilst all other required signals will be only delivered to the replay system.

Event	Number of Monitors	Position	Kind of signals/feeds
Halfpipe ..	5-7 (at least 4 monitors x 32-40 Inches) Final number will be confirmed by the FIS Contest Director during the inspection	<ul style="list-style-type: none"> - 1 at start - 3-5 in judges stand - with Trick Caller in a separate stand with Data & Timing service - 1 at finish area if needed 	<p>Judges stand: World feed (dirty with graphics) ISOFEED (hard camera covering main action filming from the finish area.</p> <p>Start and finish area: Program feed or isofeed tbd with contest director</p>
Big Air ..	3-6 (at least 4 monitors x 32-40 Inches) + 1 dedicated camera to be agreed with the FIS Contest Director	<ul style="list-style-type: none"> - 1 at start - 2-5 in judges stand - 1 finish area if needed 	<p>Judges stand:</p> <ul style="list-style-type: none"> - World Feed (dirty with graphics) - ISOFEED (from the camera agreed with the Contest Director - optimal coverage of the performance/kicker) - Feed from behind the kicker - Feed of the landing area <p>Start and finish area: Program feed or isofeed tbd with contest director</p>
Slopestyle	7 (all monitors at least 32-40 Inches)	<ul style="list-style-type: none"> - 1 at start - 5 in judges stand - 1 with Trick Caller in a separate stand with Data & Timing service - 1 at finish area if needed 	<p>Judges stand:</p> <ul style="list-style-type: none"> - World Feed (dirty with graphics) - 5-7 feeds from other cameras that cover the whole course. These will be confirmed once on site with the TV and/or image production crew. <p>Start and finish area: Program feed or isofeed tbd with contest director</p>

Ski- & Snowboard Cross Video Control

The Jury must have the possibility for a technical video review of the entire Qualifications and Finals. Therefore, aside from the Finals, an adequate camera set up (entire course, defined by all gates and ideally from two different perspectives) is required also for Qualifications.

For Ski Cross, Snowboard Cross and the Cross Team events, a separate EVS (electronic video server) for the official FIS Video Controller is required, in order to be able to review, independently from the TV production EVS/ slow-motion, any race scene in slow motion as well as from different camera angles (all camera angles covering the course).

The position for the Video Control as well as the communication via intercom/ mobile intercom to the race Jury and TV production, will be established prior to the first Qualification phase.

The priority for the intercom connection is the triangle connection in between the Video Control Referee, the Race Director and Technical Delegate (or Finish Referee).

Usually there it should be a quadrilateral connection also to the TV production.

The ideal and most consistent set-up to guarantee that all major race functions (Start – Finish Referee – Race Jury) have a solid and noise protected connection is the connection also to the Start Referee via an intercom/mobile intercom or cabled connection also to the Start Referee.

This should be available latest for the Olympic Winter Games and World Championships)

The above-mentioned requirements are essential and mandatory.

Ski- & Snowboard Cross Monitors & Signal Requirements

For events' coordination, the following monitors of an adequate dimension and with an appropriate connection to the international world feed (with graphics) are required at the venues:

Event	Number of monitors	Kind of Signal	Position
Ski and Snowboard Cross	6	World Feed and EVS Signal	<p style="text-align: center;">1</p> <p style="text-align: center;">Start (outside), World Feed only for Coaches of current heat on course to enhance TV emotional content</p>
			<p style="text-align: center;">2</p> <p style="text-align: center;">OB Van or separate both World Feed + EVS (Video Control/ Referee)</p> <p style="text-align: center;">2</p> <p style="text-align: center;">Data & Timing building, World Feed + EVS (Race Director)</p> <p style="text-align: center;">1</p> <p style="text-align: center;">near the exit gate Video Wall feed (world) + EVS (Technical Delegate or FIS official)</p>

To be noted:

1. One monitor will have to be provided also to the event's announcer for each competition
2. The above list DOES NOT include the FIS Data & Timing requirements

Snowboard Alpine Video Control

The Jury must have the possibility for a technical video review of the entire Qualifications and Finals. Therefore, aside from the Finals, an adequate camera set up is required also for Qualifications.

For Parallel Giant Slalom and Parallel Slalom, a separate EVS (electronic video server) for the official FIS Video Controller is required, in order to be able to review independently any race scene in slow motion and from different camera perspectives (normally from all camera angles covering the course).

The position for the Video Control as well as the communication, either by radio or intercom to the race Jury, will be established prior to the first Qualification phase. A solid connection in between the Race Director and the Video Controller is required. Ideally this is guaranteed by an Intercom/ Mobile intercom connection.

The above-mentioned requirements are essential and mandatory.

Snowboard Alpine Monitors & Signals Requirements

For events' coordination, the following monitors of an adequate dimension and with an appropriate connection to the international world feed (with graphics) are required at the venues:

Event	Number of Monitors	Kind of Signal	Position
Parallel Giant Slalom/Parallel Slalom	3	World Feed (dirty, with graphics)	1 at the start World Feed only Coaches of current heat on course
			1 halfway down the course; on a good live view position (Race Director) 1 OB Van or separate both World Feed + EVS (Video Control/ Referee)

To be noted:

1. one monitor will have to be provided also to the event's announcer for each competition
2. the above list DOES NOT include the FIS Data & Timing requirements

AERIALS & MOGULS TV PRODUCTION FOR JUDGING PURPOSES

1. The Aerials and Moguls competitions can be judged directly from a stand placed appropriately (judges having a direct and standard visual of the field of play) and/or judged indirectly, with Judges stand placed not with a direct view of the course. In both cases a few cameras filming the contest are required and mandatory (details to be agreed with the FIS Race Director). Therefore, an adequate set up with such cameras is required for training sessions (test only), qualifications and finals.
 - Moguls: a clean shot from the centre back of the finish area needs to be provided. This camera and operator need to film consistently every competitor making sure that for every trick the coping of the moguls course is kept in the shot and that the zoom out is steady and progressive. If host broadcaster cannot provide such shot, the OC must provide such operator and camera as well as provide the images in the judges stand.
 - Aerials: a clean shot from take-off to landing where all the action is visible is required. Additional feed is required to show the take-off (view from behind the kicker) and the landing, to show all the imperfections of the jump.
2. It is essential that the TV and or image production team connects to the judges and or the Race Director prior to the event to confirm the camera angles and make sure that the produced feeds reflect the sport's/judge's needs. A proper coverage of the entire performance of each athlete is mandatory.
3. Mistakes and/or missed tricks by TV and or image production may result in a re-run as the judges will not be able to perform their duty.

MONITORS, SIGNALS & DEDICATED CAMERAS REQUIREMENTS

For events' coordination and judging purposes, the following monitors (and/or cameras) of an adequate dimension and with an appropriate connection to the international world feed (with graphics) are required at the venues.

The main chosen feed will be delivered to the monitors in the judges stand as well as to the replay system whilst all other required signals will be only delivered to the replay system.

Moguls & Aerials Monitors & Signals Requirements

For events' coordination, the following monitors of an adequate dimension and with an appropriate connection to the international world feed (with graphics) are required at the venues:

Event	Number of Monitors	Kind of Signal	Position
Aerials	4-5	World Feed (dirty with graphics)	<ul style="list-style-type: none"> 1 Race Director
		ISOFEED (from the camera agreed with the Race Director - optimal coverage of the performance / jump)	<ul style="list-style-type: none"> 1 Head Judge 2-3 onsite judging (0 if online judging)
Moguls	5-6	World Feed (dirty with graphics)	<ul style="list-style-type: none"> 1 at the start 1 exit gate (FIS RD)
		ISOFEED (from the camera agreed with the Race Director - optimal coverage of the performance / jump)	<ul style="list-style-type: none"> 1 for Head Judge 2-3 onsite judging (0 if online judging)
Dual Moguls	5-6	World Feed (dirty with graphics)	<ul style="list-style-type: none"> 1 at the start 1 exit gate (FIS RD)
		ISOFEED (from the camera agreed with the Race Director - optimal coverage of the performance / jump)	<ul style="list-style-type: none"> 1 for Head Judge 2-3 onsite judging (0 if online judging)

To be noted:

1. one monitor will have to be provided also to the event's announcer for each competition
2. the above list DOES NOT include the FIS Data & Timing requirements