

BROADCASTER MANUAL

2021/22

NORDIC COMBINED

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Nordic Combined Annex to the FIS Broadcast Manual

This Annex details the specific requirements, obligations and arrangements for broadcasting organizations and production companies to create the best possible platform for the planning and final delivery of a first-class FIS Nordic Combined competition for the international television audience.

Nordic Combined features competitions hosted during the winter in a range of international venues, with unique hill and course constructions. A highly specialized approach and philosophy towards the television coverage is needed to achieve the greatest success.

The manual and this annex are intended to be a portable and quick reference publication that will help your Nordic Combined production both in the development stages and during the competition phase of the event.

Should you have any questions about the coverage of Nordic Combined competitions then contact the address below:

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1. Nordic Combined Competition Formats

During the course of a calendar season, the most important series of competitions is the FIS Nordic Combined World Cup series (men and women) with approximately 30 competitions in total.

The FIS Nordic World Championships, in which Nordic Combined has a significant presence, are held in odd numbered years with the Olympic Winter Games held every four years in even years. The number of competitions held during the season depends on whether the year falls in a World Championship or Olympic year.

- In Nordic Combined male athletes compete on normal hill and large hills, women compete on the normal hill.
- All cross-country races are in free technique.

COMPETITION FORMATS

- Individual Gundersen Men 10km – one jump and 10km skiing
- Individual Gundersen Women 5 km – one jump and 5 km skiing
- Team Sprint (Men) – 1 jump and 7,5km skiing per athlete, athlete exchange every 1,5km.
- Team event (Men) – 1 jump and 5km skiing x 4 athletes.
- Final event (Men) – 2 jumps and 15km skiing (finale event of the season, only 30 athletes)
- Mixed Team Event - 1 jump and 5 km, 2.5 km, 2.5 km and 5 km skiing (4 athletes, 2 men and 2 women)

FORMAT WITHIN TOURS

- Mass Start Men - 10 km of skiing and one jump (within Lillehammer Tour)
- Mass Start Women - 5 km of skiing and one jump
- Individual Gundersen 5 and 15 km – (within Nordic Combined TRIPLE) 1 jump and 5 or 15 km of cross-country skiing

2. Production Plan and Coverage Philosophy – Ski jumping part.

For the TV production, between 10 and 12 cameras are necessary, and their exact placing will be decided during a technical inspection, taking account of the local topography.

The drama of Ski Jumping is shown through the takeoff and landing, which lasts approximately 1 minute. Variety for the TV viewer can be offered by showing what happens behind the scenes.

2.1 Basic elements of coverage

- The athlete at the start position (close-up with advertising board in the background)
- Coaches giving signal
- Start
- Flight
- Landing
- Athlete reaction

- Current leader after each jump
- Winners presentations/ceremony
- Regular view of the venue and spectators

2.2 Information to be provided at the start of the transmission

- FIS caption
- Weather information
- Names of the judges and jury
- Profile of the hill
- Starting list

3. Camera configuration

Camera 1

Close-up and preparation of the athlete.

At the start, sitting position of the athlete in front of the advertising board, wide angle lens. The cameraman must have the possibility to follow all the way to the take-off without any visual obstructions. Ideal: hand-held camera or remote-controlled camera. If a pole cam is in use in this position, it is important that it is operated by a very experienced operation to avoid any disturbance to the athlete in the inrun.

Camera 2

Position: sideways to the take-off, approx. 5 – 7 meters away, on a platform, which is at least 50 cm above the take-off. The take-off with skis and boots and the athlete must be shown in full profile. The cameraman must follow the athlete from the start to the take-off – including the jump, whereby a close-up of the athlete – concentration phase – would be preferable. Change to camera 3 at the take-off. Lens: long focal length, preferably times 70.

Camera 3 (main camera)

Position: about 2/3 of the distance between the jump and K point at between 12 to 20 meters from the Jumping hill. The lens (long focal length times 55) of the camera must be at the same height as the athlete during the flight at this position, thus 3 to 4 meters at a 90 degree angle.

The cameraman pans with the athlete from the take-off, following from below until the landing and further to the end of the landing zone.

The view at the landing is total and all markings on the snow are visible. Each jump must be shown live from this camera. (Comparison effect for the TV viewer, who wants to guess the distance.)

Camera 4 (preferably mounted on a crane – 9 to 11 m arm)

Position: after the landing slope in the flat part of the outrun. Lens: normal to wide angle. Shows the athlete from the landing until the end of the outrun (important for slow motion: athlete's emotions after the landing)

Camera 5 (Hand-held camera)

Position: in the outrun, shows the athlete slowing down and his reaction after seeing the result. Lens: wide angle.

Camera 6 (Hand-held camera)

Position: Exit-Gate: supports camera 5, as well as showing the atmosphere in the mixed zone and the reaction of the leader

Camera 7

Position: on the platform opposite the coaches stand. Lens: long focal length times 70. Shows the coach before the start and the reaction (slow motion) to his athlete after the landing.

Camera 8 (Super slow-motion)

Position: like camera 2, must follow the athlete from the take-off through the flight phase until the landing. This picture shows the jump precisely, initial corrections after the take-off and offers the view of seeing the athlete floating above the spectators.

Camera 9 (Superslowmotion)

Position: landing hill, at ground level, platform only for ground adjustment approx. 3 meters before the jury. Lens: long focal length, times 70. The camera shows the athlete in the last third of the jump until the landing.

Recordings of cameras 8 and 9 can be synchronized, with Superslowmotion from the take-off until one third of the flight, and then camera 9 up to the landing. Further panning of camera 9 until the end of the landing slope is preferable.

Camera 10 (on crane – height between 60 to 80 meters)

Position: two alternatives: 1. behind the jumping tower, whereby the basket of the crane should be at least 20 meters above the tower. This picture shows the athlete from behind after the start, with take-off, flight and landing. The landing from this view is very spectacular. Additionally provides beauty shots.

Position 2: at an angle of 180 degree opposite the jumping tower. This picture shows the above-mentioned views from the front. Lens: long focal length, times 70 or 84.

Camera 11 und 12 (hand-held)

Positions: waxing area, lift entry/exit, athletes lounge.

Lens: wide angle. Recordings of this camera must be made, as good sequences mostly cannot be shown live, because the activity in the stadium does not allow it. (Replay not in slowmotion, real speed!)

Please note that all camera pictures – except camera 1 – are to be recorded.

4. Special additions for the TV presentation

General

The camera configuration detailed above offers the possibility of a sport-oriented, enjoyable and diversified transmission of the ski jumping part of a FIS Nordic Combined World Cup. It is the skill of the TV director to write the story of the athletes and the evolving competition. A pre-condition is an optimal co-operation between the FIS Race Director and the organizer.

Specialist cameras: request to use rail camera, fly-cam, speed-cam sideways to the in-run, mini cameras on the in-run necessitate early contact with the FIS Race Director to agree what is possible.

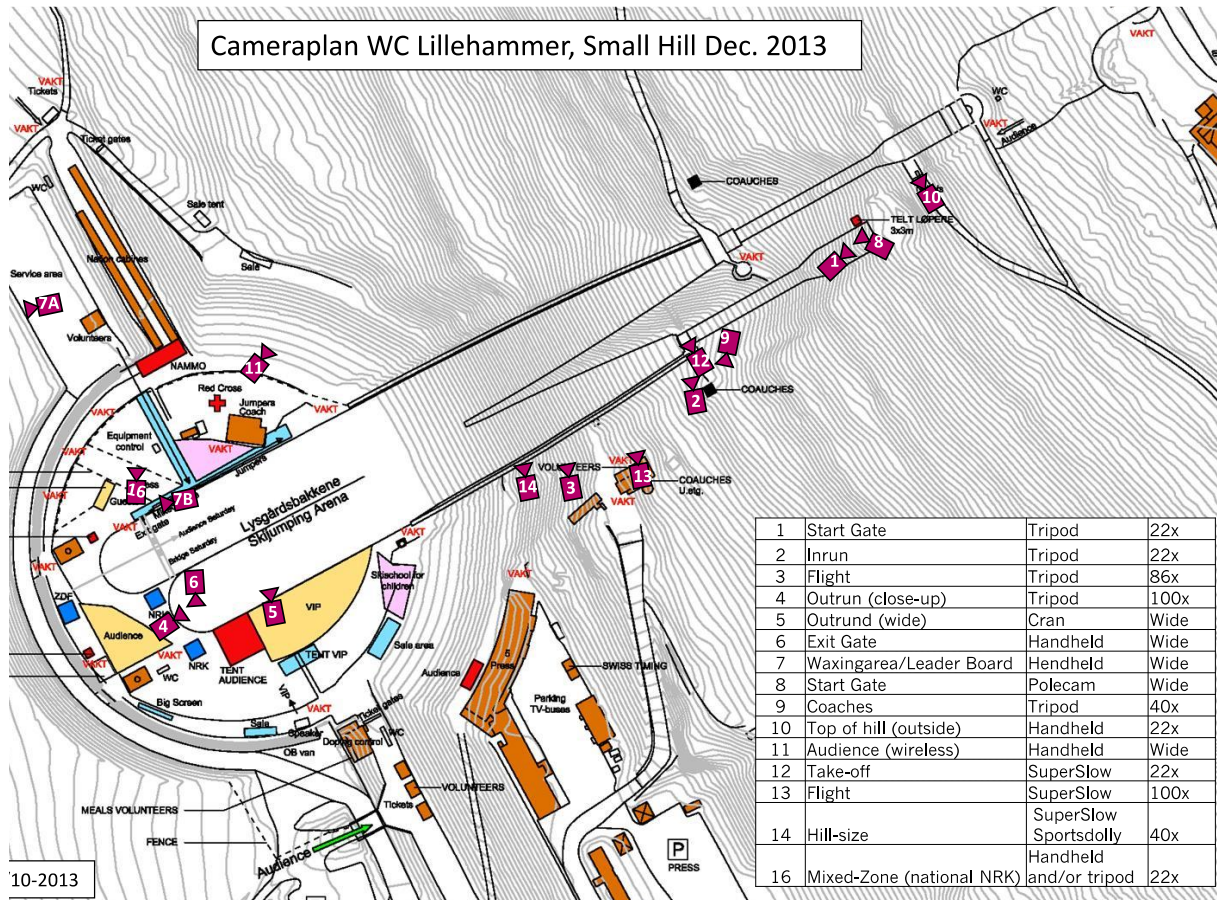
Information inserts:

- At the start: name of the athlete with countdown time information
- After the take-off: in-run speed
- 2 – 3 Seconds after the landing: distance
- After a slowmotion replay complete information with the athlete in shot
- No information inserts on slowmotions, because the viewers will be distracted from enjoying the flight.

Start interval

The start interval is approx. 45 seconds. For the top athletes 55 seconds would be preferable.

Example Camera plan Ski jumping part.



5. Running Order for the Ski Jumping part of Nordic Combined Transmissions

	IN (GMT)	IN (local time: GMT+1)	OUT	DURATION (h,mm:ss)	ON SCREEN	GRAPHICS	
	10:50:00	11:50:00			Start of the International Feed		
OPENING	10:50:00	11:50:00	12:00:00	00:10:00	OPENING SEQUENCE		
		11:50:00	11:50:25	00:00:25	FIS & INFRONT Animation (tape)		
		11:50:25	11:50:35	00:00:10	Beauty Shot	TITLE EVENT	
		11:50:35	11:51:00	00:00:25	Wide Shots: Atmosphere at the Venue		
		11:51:00	11:52:00	00:01:00	FALUN Venue Presentation (tape)		
		11:52:00	11:52:30	00:00:30	Wide Shots: Atmosphere at the Venue		
		11:52:30	11:53:30	00:01:00	INTERVIEW: "Athlete to Watch" / Coach (tape)	Jumper ID	
		11:53:30	11:55:00	00:01:30	Back Stage: Jumpers Warm Up		
		11:55:00	11:55:10	00:00:10	Beauty Shot	TITLE EVENT	
		11:55:10	11:55:20	00:00:10	Wide Shots: Atmosphere at the Venue		
		11:55:20	11:56:10	00:00:50	Back Stage: Jumpers Warm Up (favourites)	Jumpers ID	
		11:56:10	11:56:30	00:00:20	Wide Shot: Jumping Hill	WEATHER CONDITIONS	
		11:56:30	11:56:50	00:00:20	Wide Shot: Jumping Hill	HILL PROFILE	
		11:56:50	11:57:00	00:00:10	Wide Shot: Judges Tower	Judges and Jury	
		11:57:00	11:58:00	00:01:00	Wide Shot	STARTING ORDER	
		11:58:00	11:59:00	00:01:00	Back Stage: Jumpers at Warm Up Room	Jumpers ID	
		11:59:00	12:00:00	00:01:00	Close-ups & Warm-ups: Jumpers at Start Gate	Start Gate	
	RACE	11:00:00	12:00:00	12:45:00	00:45:00	RACE SEQUENCE	
						JUMPING GROUP 1-2	Jumper ID / Result
		12:00:00	12:45:00	00:45:00	INFO BREAK (60 sec.) After the 2nd Group of Jumpers: - Wide Shot - Slo-mo Leading Team - Leader Board: Close-Up	- STANDINGS AFTER 2nd GROUP - Jumper ID - Jumper ID	
					JUMPING GROUP 3	Jumper ID / Result	
					INFO BREAK (90 sec.) After the 3rd Group of Jumpers: - Wide Shot - Slo-mo Leading Team - Leader Board: Close-Up	- STANDINGS AFTER 3rd GROUP - Jumper ID - Jumper ID	
					JUMPING GROUP 4 (REVERSE ORDER)	Jumper ID / Result	
CLOSING	11:45:00	12:45:00	12:50:00	00:05:00	CLOSING SEQUENCE		
		12:45:00	12:45:30	00:00:30	Leading Team Celebration	Jumpers ID	
		12:45:30	12:46:20	00:00:50	Wide Shot	RESULTS LIST	
		12:46:20	12:47:20	00:01:00	FLASH INTERVIEW with the Leading Team (in English)	Jumpers ID	
		12:47:20	12:48:20	00:01:00	HIGHLIGHTS: Best Jumper from best 3 Teams	Jumpers ID	
		12:48:20	12:48:40	00:00:20	Wide Shots: Atmosphere at the Venue		
		12:48:40	12:49:30	00:00:50	FINAL CLIP: - Best Jumps (with music) - Coaches Reactions - Fans Celebrating		
		12:49:30	12:49:35	00:00:05	Wide Shot	Director / TV production	
	12:49:35	12:50:00	00:00:25	FIS & INFRONT Animation (tape)			
	11:50:00	12:50:00			Estimated International Feed closing time		

IN (GMT)	IN (local time: GMT+1)	OUT	DURATION (h,mm,ss)	ON SCREEN	GRAPHICS		
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		11:50:35	11:51:00	00:00:25	Wide Shots: Atmosphere at the Venue		
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		12:00:00	12:45:00	00:45:00	JUMPING GROUP 3	Jumper ID / Result	
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				JUMPING GROUP 4 (REVERSE ORDER)	Jumper ID / Result		
CLOSING	11:45:00	12:45:00	12:50:00	00:05:00	CLOSING SEQUENCE		
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	12:49:35	12:50:00	00:00:25	FIS & INFRONT Animation (tape)			
11:50:00		12:50:00		Estimated International Feed closing time			

6. Production considerations

The following elements must be shown in all productions:

- Flight
- Landing
- Reaction of the athlete
- Video time-measuring fade-ins
- Slow-motion of the jump
- Fade-in of the score with presentation of the athlete and his reaction in the Background
- Information: name, score, length, ranking and time behind/in front of the current leader.
- Start interval should be 45" approximately for the first 30 athletes, then 50sec for the next 10 athletes and 55 seconds for the last 10 athletes if the time and conditions allow it.
- Order of information and pictures after take-off must be discussed to ensure enough time for replays of good jumps.
- An "athlete's zone" around the leader board is offered to all athletes to change and watch some of the next jumps. This area might give the HB some different pictures to use (athlete interaction with leader, among themselves), so it's worth to have the camera 6 operator have an open mind/eye for this area.

Start of transmission

The international transmission starts 10 minutes before the first jump.

The running order shall be the same for all FIS World Cup competitions.

7. TV breaks

TV technical breaks are designed to introduce a pause into the competition process to enable broadcasters to:

- Interview athletes in the Finish Area
- Provide background information either live or via pre-recorded packages
- Transmit a Commercial break

These TV technical ("info") breaks should not interfere with the presentation of the sport and consequently the following principles are to be respected:

- No athlete should be affected negatively by a TV break.
- During breaks, a trial jumper may jump while the international signal shows background information/replays of the race.
- TV breaks shall not interfere with the staging of a sporting event.
- TV breaks will be notified prior to the competition and included in the race schedule for the day.
- The Jury or the FIS Race Director following consultations with the HB will make the final decision regarding the inclusion of TV breaks in the case of adverse weather conditions.
- A uniform way of presenting TV breaks will be made by all TV companies/Host Broadcasters.
The sports competition will not be influenced by a delay in showing advertising spots by a TV company.

Info break arrangements individual event:

1 st TV break	1 round	after 30 competitors.
2 nd TV break	1 round	after 40 competitors.

Info break arrangements Team/Team Sprint events:

after the first group
(after the second group) Team Event
(after the third group) Team Event

Length of breaks

Duration of TV breaks is

- at least 1 minute, usually approx. 1 minute 30 seconds.
- conform to the established starting interval
- TV breaks will be shown on the start lists.

Intervals

- The FIS Assistant Race Director makes the decision on and implementation of intervals.
- Breaks for information / precision shall be announced in good time prior to the Competition together with all intervals and must be included in the race schedule of the day.
- For all competitions the following also applies to the special information intervals:
If needed and possible, a trial jumper shall jump. In case of adverse weather conditions, the FIS Assistant Race Director may shorten or even cancel these special intervals.

8. Production Plan and Coverage Philosophy – Cross Country

8.1. Individual Gundersen 10 km / 5km

In the individual Gundersen 10km/5 km race the athletes are skiing on a 2,5km or 2,0 km loop. The Gundersen race is based on the jumping results, where the athlete leading after the jumping part starts as number 1, and all other athletes start with the applicable time difference behind the leader. The first athlete to cross the finish line wins the race.

Main point for the TV producer is to create a story of the leader(s), and to follow the competitors that are chasing from behind.

Intermediate time:

There are 2 intermediate times on the 2,5km loop. They are set up in close cooperation between HB, OC and FIS. Important for the intermediate times is to stay with the camera picture on the intermediate time on lap 1 and 2. This to show the difference from the leader back to the chasers, but also to make sure that most athletes from all nations are shown during the transmission.

Camera plan and running order for the Individual Gundersen

The 2,5km track requires a minimum of 14 cameras to be able to cover the whole loop and to keep the production on the highest possible level.

In the planning phase of the competition, it is very important for the HB director to work closely with the OC and the FIS to ensure cameras are not obstructed by the anticipated coaching zones or the spectator areas.

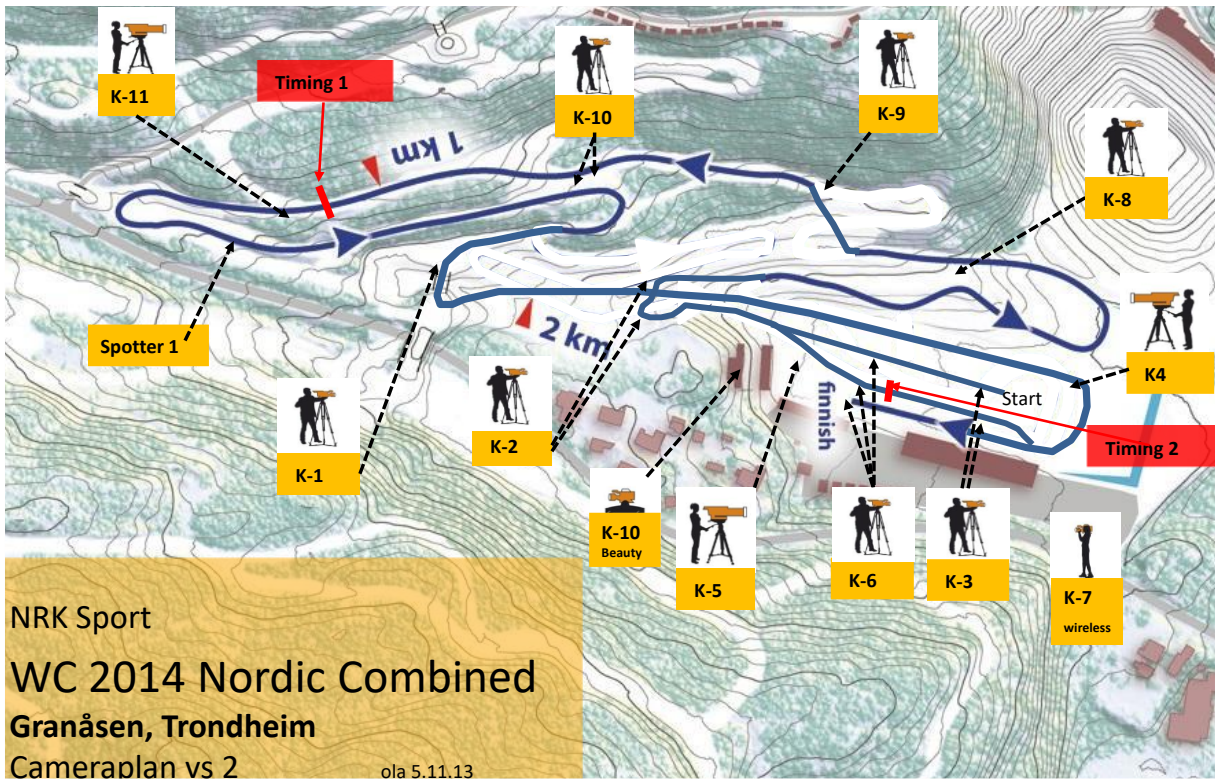
The camera plan will also be discussed and confirmed during the Inspection visit.

Cross-country run-up part:

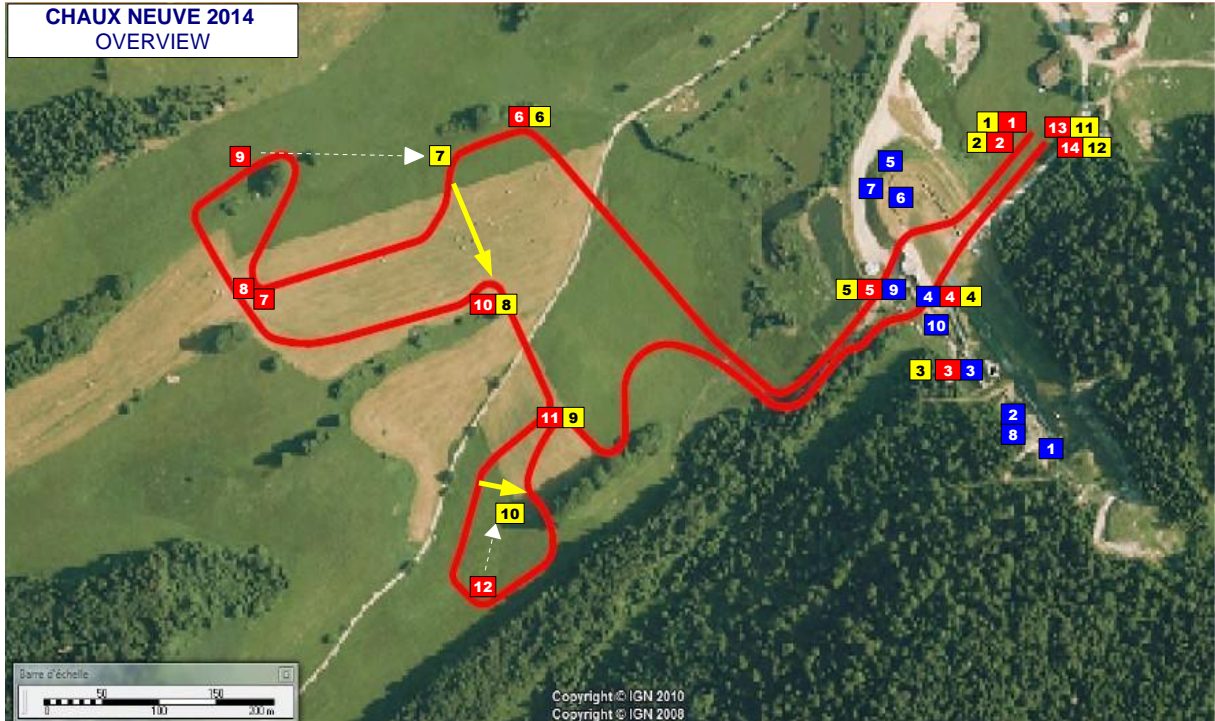
Live reaction interview: 4:00 minutes before the start we have a short live interview with one of the athletes in the athletes' zone. The interview can be taped in the athletes' zone from approx. 10 minutes before the start.

Walk In: The walk in starts 3:00 minutes before that start of the race, where the Top 3 plus the holders of the blue bib (leader best jumper trophy) and red bib (leader of the bet skier trophy) are presented to the TV audience for about 10 seconds each. A handheld camera or a steadicam at the start is used to follow the athletes walking in. Graphics shown are name and time behind the leader. After these initial 5 athletes, the rest of the field is walking to the start in as a group.

The normal run-up is then followed, and 1 min before the start the top 3 athletes are once again presented with a close-up shot in the start area and results so far this season is shown in graphics.



Example Camera plan 1,5km Team Sprint.



Example Camera plan 1,5km Team Sprint.