



norkring

Norkring België

the unlimited possibilities of the digital air



Bart Bosmans
CEO Norkring België NV

Who are we?

Norkring België is a young, dynamic and innovative media company with offices in Evere, Herentals and Sint-Pieters-Leeuw. Norkring België has its own broadcast infrastructure network (DVB-T, DAB & DVB-H) and is therefore a skilled new network operator for digital television, radio and other applications. We place our utmost innovative broadcast infrastructure, knowledge and expertise at the disposal of our partners, and this way also of the end user.

Norkring België is part of the international transmission supplier Norkring AS, that owns one of the largest European networks. The shareholders of Norkring België are Norkring AS (75%) and Participatiemaatschappij Vlaanderen (nvdv: Participation Society Flanders) (25%).

For more information, please look at www.norkring.be

The benefits of digital transmission

- quick and wireless transmission of radio, television or data
- digital image and sound quality
- good reception by optimal coverage of Flanders and Brussels
- a competitive price for using our network for radio, television or data.



Digital air

The express way to your target group

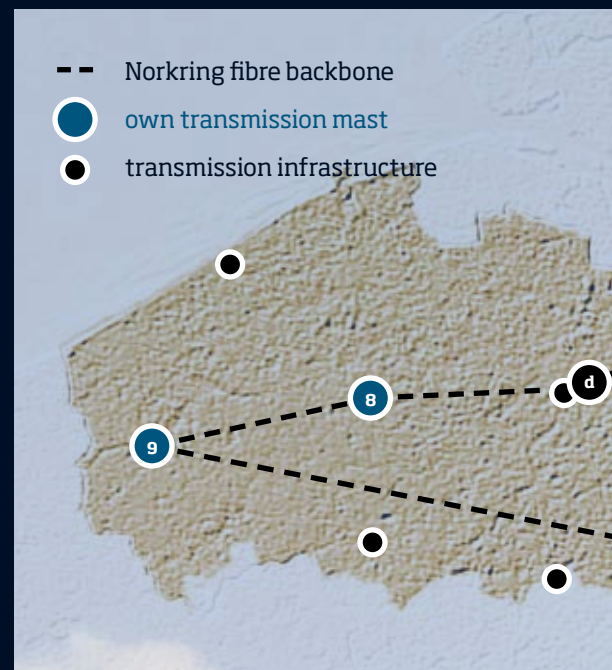
Making digital broadcast services accessible always and everywhere: that is the principle of Norkring België. By using the digital air, cable or broadband are no longer necessary in order to do this.

→ A great advantage for the consumer, who is no longer dependent on his location for television reception. Thanks to the digital air, he can enjoy digital quality television and radio reception in the car, in the office, in the attic as well as on a caravan park.

→ A great advantage for our partners: they send contents – data, moving images or radio – in high quality at an appealing rate.

In Flanders and Brussels, Norkring België owns a complete infrastructure for the transmission of radio, television or data signals through the digital air. Our transmission tower in Sint-Pieters-Leeuw – the highest construction in Belgium – is the interchange of our network. There we process through fibreglass cable the television, radio and data signals which our customers deliver, and irradiate them on to our transmission masts throughout the whole of Flanders, by using our own fibreglass network.

- Norkring fibre backbone
- own transmission mast
- transmission infrastructure



Television and radio in high quality

Digital television: at home, elsewhere or on the move

Excellent television reception always and everywhere, even in a driving car: digital television on air has attractive assets. A small antenna, being built in or not in the television set, will do for reception throughout the whole of Flanders and Brussels.

Digital radio: always qualitative reception

Digital radio means perfect radio reception, additional display information and the right frequency by touching the button one time. Through Digital Audio Broadcasting or DAB Norkring België sends the delivered radio signals into the digital air.

AM and FM broadcasts

Norkring België also takes care of the technical exploitation of radio broadcasts through AM and FM. This way, radio stations can focus on their core business, which is making radio. Norkring België was chosen by VRT to attend for them to digital television and radio as well as AM and FM broadcasts, according to the required quality.

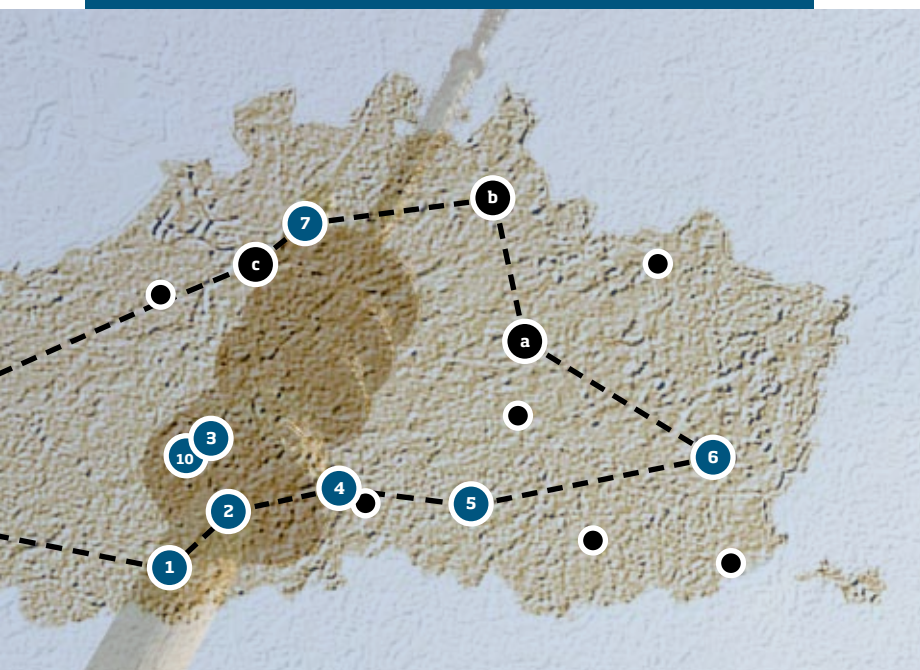


THE NORCRING NETWORK



1. Sint-Pieters-Leeuw
2. Brussels
3. Wolveterm
4. Veltem
5. Attenrode Wever
6. Genk
7. Schoten
8. Egem
9. Oostvleteren
10. Brussegem

- a. Meerhout
- b. Oud-Turnhout
- c. Antwerp
- d. Ghent



Technical a peep behind the scenes

Norkring België sends digital television through Digital Video Broadcasting Terrestrial, shortly DVB-T. However, also other broadcast technologies are possible: DVB-H, DMB, DVB-T2,... Norkring has thorough command of them all.

All radio and television signals are delivered through fibreglass to Sint-Pieters-Leeuw. Our digital head ends process these signals and turn them into multiplexes: bundles ready to be broadcasted through DVB-T or DAB. Through our own fibreglass and radio-beam link backbone we send the signal to our transmission sites throughout the whole of Flanders. The transmitters modulate the signal into the correct frequency for broadcasting, they amplify it and send it on to the transmission aerial.

Our Technical Control Centre in Sint-Pieters-Leeuw constantly controls all incoming and outgoing signals, radio-beam links and equipment, to be able to ensure the quality of our services.

Foresighted qualitative digital applications

Digital applications: a world of possibilities

Norkring België places its network at the disposal of each digital on air data application. There is a wide range of possibilities:

all sorts of digital information that has to be send from one starting point to another point (e.g. connections between data centres, video images, ...) or that has to be sent wireless to fixed and mobile end customers.

Possible applications are:

- additional data for electronic systems (GPS, notebook, ...)
- information for electronic boards
- video images (with non-reduced quality)
- point-to-point and point-to-multipoint connections



Co-location

With pleasure, we place our infrastructure at the disposal of other parties. On eight locations, Norkring België has control over all facilities for telecommunication operators, local broadcasters, emergency services, television operators, the police, ... In short, everyone who wishes to launch a wireless network. Regarding the aerials, several heights are possible, ranging from 81 metres up to 300 metres. Also renting mast space is one of the possibilities.

Contact

Do you need more information? Or would you like to discuss how we can support your business with our broadcast infrastructure? Do you have a specific application in mind?

Feel free to contact us without any obligations. With pleasure, we will visit you for a consultation.

Contribution

Also for live broadcasts such as reports, sport events or concerts, Norkring België offers the best solution. Recorded video and audio signals can be sent wireless on the spot to one of our masts throughout Flanders and Brussels.

Norkring België delivers these broadcast signals to a chosen place by its fibreglass network.

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