



norkring

# Norkring België

the unlimited possibilities of the digital air



## Who are we?

Norkring België is a young, dynamic and innovative media company with offices in Antwerp, Schoten and Sint-Pieters-Leeuw. Norkring België is full owner of a broadcasting network for digital television, radio and other data applications (FM, DVB-T & DAB).

We offer our innovative broadcasting infrastructure, knowledge and expertise as a service to our partners, and thus indirectly also to the end user.

Norkring België is part of the international broadcast service provider Norkring AS, owner of one of the largest European transmission networks. The shareholders of Norkring België are Norkring AS (75%) and Participatie Maatschappij Vlaanderen (25%).

Bart Bosmans  
CEO Norkring België NV

For more information, please look at [www.norkring.be](http://www.norkring.be)

## Television and radio in high quality

### Digital television: at home, or anywhere on the move

Excellent reception of television, anywhere and anytime, even in a moving car : digital terrestrial television offers unlimited possibilities. A small antenna guarantees reception throughout the whole of Flanders and Brussels.

### Digital radio: experience radio in appealing quality

Digital radio in perfect audio quality offers an enriched radio experience with additional information shown on the display of the radio receiver. Through Digital Audio Broadcasting (D.A.B.) Norkring België offers a wireless terrestrial platform for digital radio experience.

### FM broadcasts

Norkring België also offers broadcast network services for analog FM. This allows radio stations to focus on their core business, which is making radio. Norkring België was chosen by the VRT as the technical service provider for broadcasting their radio and TV-channels, both analog and digital, according to their high quality standards.



## The benefits of digital transmission

- Fast and wireless transmission of radio, television or data
- Image and sound in digital quality
- Good reception by optimal coverage of Flanders and Brussels
- A competitive price for using our network for radio, television or data



## THE NORCRING NETWORK



1. Sint-Pieters-Leeuw
  2. Brussels
  3. Wolvertem
  4. Veltem
  5. Attenrode Wever
  6. Genk
  7. Schoten
  8. Egem
  9. Oostvleteren
  10. Brussegem
- a. Meerhout  
b. Oud-Turnhout  
c. Antwerp  
d. Ghent

## Digital terrestrial networks

### The highway to your customers

Access to digital broadcasting services anywhere anytime: that's the goal of Norkring België. By using digital terrestrial networks, end-users don't need cable or broadband connections anymore.

→ A great advantage for the consumer, who is no longer dependent on his location to receive television. Thanks to the digital terrestrial network, he can enjoy television and radio in digital quality in the car, in the office, in the attic or on a camping site.

→ A great advantage for our partners: they can send content – data, video or radio – in high quality and at low cost.

In Flanders and Brussels, Norkring België owns a complete infrastructure for broadcasting radio, television and data signals over a digital terrestrial network. Our transmission tower in Sint-Pieters-Leeuw – the tallest construction in Belgium – is the central node of our network. Here, the television, radio and data signals from our customers are processed before being sent through our own fiber network to our transmission towers all across Flanders.

- Norkring fibre backbone
- own transmission mast
- transmission infrastructure



## Technical

### A look behind the scenes

Norkring België provides digital television by using Digital Video Broadcasting Terrestrial technology (DVB-T). In addition, other broadcast technologies are equally possible: DMB, DVB-T2, ... Norkring masters them all. All radio and television signals are delivered through optical fiber in our technical headquarters in Sint-Pieters-Leeuw. Our digital head-ends process these signals and turn them into multiplexes (bundles of programs ready to be broadcast through DVB-T or DAB).

Via our proprietary optical and microwave backbone we send the required signals to our transmission towers all across Flanders. The transmitters modulate the received signals to the intended frequencies to be broadcasted, amplify these signals and send them to the antennas.

Our Network Operations Center in Sint-Pieters-Leeuw permanently monitors all incoming and outgoing signals, the fiber backbone, the microwave links and all the transmitter equipment in order to ensure the quality of our services.

# Future-proof high-quality digital applications

## Digital applications: a world of possibilities

Norkring België places its network at the disposal of digital terrestrial data applications. There is a wide range of possibilities: all sorts of digital information that has to be sent from one point to another (e.g. connections between data centers, video images, ...) or that has to be pushed wirelessly to fixed and mobile end-users.

## Possible applications are:

- Additional data for electronic systems (GPS, notebook, ...)
- Push information for electronic boards and digital signage systems
- Video images (without compromising quality)
- Point-to-point and point-to-multipoint connections



## Co-location

We also put our infrastructure at the disposal of third parties. On eight locations, Norkring België offers all facilities for hosting telecommunication operators, local broadcasters, emergency services, television operators, the police, or any other party that wishes to set up a wireless network. Several heights are possible for installing antennas on our transmission towers, ranging up to a level of 300 meters.

## 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. We'll be happy to discuss ...

## Contribution

Also for live broadcasts such as news, sports events or concerts, Norkring België offers the best solution. Captured video and audio signals can be broadcasted locally or can be sent wirelessly from the capture spot to one of our masts throughout Flanders and Brussels. Norkring België delivers these broadcast signals to a chosen place by its fiber network.

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