



SYNAPSYS VNG

VIDEONYSTAGMOGRAPHY SYSTEM

DESCRIPTION

SYNAPSYS VNG is the Synapsys line of video nystagmography systems, ideal for a complete vestibular analysis thanks to the wide range of available tests, which includes both vestibular and oculomotor tests. Available in two configurations (**Screening** and **Standard**), which differ in the features offered, SYNAPSYS VNG can make use of either wireless or wired cameras.

Users looking for a wireless camera can also choose goggles from two models: **Goggles Flex** (more flexible and adjustable to any face shape) or **Xpress mask** (more reliable for an intensive use and easier to clean).

SYNAPSYS VNG can also be optionally equipped with a binocular **VISIO** mask, which allows simultaneous recording of the movements of both eyes during oculomotor tests.

TECHNICAL SPECIFICATIONS

- Wireless Camera with Xpress mask



- **Battery:** 3,7 V, 1200 mAh
- **Battery life:** 3 hrs continuous operation at 25°C
- **Resolution:** 640 px (H) x 480 px (V)
- **Consumption:** 300 mA
- **Field of view:** 100° (H) x 55° (V)
- **Image framerate:** 30 fps
- **Weight (without battery):** 70 g

- **Material:** plastic with foam cushions, biocompatible, hypoallergenic, phthalates free
- **Occluder:** with magnetic closure

- **Medical device (Directive 93/42/EEC):** Class IIa
- **Standard:** EN 60601-1 / EN 60601-1-2

| AVAILABLE EXAMS | Model | |
|--------------------------------------|-----------|----------|
| | Screening | Standard |
| Vestibular tests: | | |
| - Positional / Spontaneous nystagmus | ✓ | ✓ |
| - Caloric nystagmus | ✓ | ✓ |
| Oculomotor tests: | | |
| - Saccades | | ✓ |
| - Smooth pursuit | | ✓ |
| - Gaze | | ✓ |
| - Optokinetic nystagmus | | ✓ |
| Kinetic test | | Opt. |

| | | |
|----------------------------------|--|------|
| Subjective Vertical Visual (SVV) | | Opt. |
|----------------------------------|--|------|

FEATURES

| | | |
|--|---|---|
| Visual stimulation controlled via software | | ✓ |
| Fixation light during tests | ✓ | ✓ |
| Ocular fixation index computing for caloric test | ✓ | ✓ |
| Video recording | ✓ | ✓ |
| Software upgradeability | ✓ | ✓ |

SYSTEM CONFIGURATION

| | | |
|----------------------------------|---|--------------------|
| Wireless Camera with Goggle Flex | | Depending on model |
| Wireless Camera with Xpress mask | | Depending on model |
| Wired VNS4X with Goggle Flex | | Depending on model |
| Binocular VISIO mask | | Opt. |
| Remote controller | ✓ | ✓ |
| VNG Software | ✓ | ✓ |

SYSTEM REQUIRMENTS

| | | |
|--|---------|---------|
| Windows 10 | ✓ | ✓ |
| Windows 11 | ✓ | ✓ |
| Processor Intel I5-6xxx (at least 6 th generation), 8 GB RAM | ✓ | ✓ |
| 2 video outputs (Dual View mode) | | ✓ |
| Video projector (not included) | | ✓ |
| USB port | USB 2.0 | USB 2.0 |

SOFTWARE

- **VNG software installed as module in Maestro software:** possibility to manage patients, execute the exams, store and visualize results in a unique database
- **Available results:**
 - **Curves:** horizontal and vertical ocular position, slow phase velocity and cumulative curves
 - **Nystagmus parameters:** direction and frequency, slow phase velocity (SPV)
 - **Caloric test:** Unilateral weakness, Reactivity, Fixation index, Preponderance
 - **Oculomotor tests:** latency, velocity, precision, gain with normative diagrams
- **Visual stimulation:** Video projector or second monitor, controlled via software