

Center :

Room :

Date :

Physicist in charge :

C-RAD installation project manager :

|                                   |             |
|-----------------------------------|-------------|
| <b>Fixed motorized Line Box 1</b> | <b>SN :</b> |
|-----------------------------------|-------------|

|                                |  | Horizontal line |       |        |
|--------------------------------|--|-----------------|-------|--------|
|                                |  | Vertical line   |       |        |
|                                |  |                 | C-RAD | CENTER |
| <i>Fixation correct</i>        |  |                 |       |        |
| <i>Cover correct</i>           |  |                 |       |        |
| <i>Correct electric wiring</i> |  |                 |       |        |
| <i>Red line</i>                | <i>Line length</i>                           |                 | #1    |        |
|                                | <i>Line width</i>                            |                 | #2    |        |
|                                | <i>Position of the line at the isocenter</i> |                 | #3    |        |
|                                |  |                 | #4    |        |
| <i>Green line</i>              | <i>Line length</i>                           |                 | #1    |        |
|                                | <i>Line width</i>                            |                 | #2    |        |
|                                | <i>Position of the line at the isocenter</i> |                 | #3    |        |
|                                |  |                 | #4    |        |

# Refer to test conditions and acceptance criteria at the end of this document

Comments :

|                                   |             |
|-----------------------------------|-------------|
| <b>Fixed motorized Line Box 2</b> | <b>SN :</b> |
|-----------------------------------|-------------|

|                                |  | Horizontal line |       |        |
|--------------------------------|--|-----------------|-------|--------|
|                                |  | Vertical line   | C-RAD | CENTER |
| <i>Fixation correct</i>        |  |                 |       |        |
| <i>Cover correct</i>           |  |                 |       |        |
| <i>Correct electric wiring</i> |  |                 |       |        |
| <i>Red line</i>                | <i>Line length</i>                           |                 | #1    |        |
|                                | <i>Line width</i>                            |                 | #2    |        |
|                                | <i>Position of the line at the isocenter</i> |                 | #3    |        |
|                                |  |                 | #4    |        |
| <i>Green line</i>              | <i>Line length</i>                           |                 | #1    |        |
|                                | <i>Line width</i>                            |                 | #2    |        |
|                                | <i>Position of the line at the isocenter</i> |                 | #3    |        |
|                                |  |                 | #4    |        |

# Refer to test conditions and acceptance criteria at the end of this document

Comments :

|  |                                      |                                       |
|--|--------------------------------------|---------------------------------------|
| <i>User Training (See annex for details)</i>       | <b>C-RAD</b><br><input type="text"/> | <b>CENTER</b><br><input type="text"/> |
| <b><i>C-RAD installation fully operational</i></b> | <input type="text"/>                 | <input type="text"/>                  |

*Signature and hospital stamp*

|   |
|---|
| <i>Physicist in charge at the hospital:</i> |
| <i>C-RAD installation project manager:</i>  |

### Annex: Users Training

| QA Users  |       |        |
|---|-------|--------|
|   | C-RAD | CENTER |
| <i>HITM laser system presentation</i>               |       |        |
| <i>Safety Information</i>                           |       |        |
| <i>Launching CyrpaSoft Software</i>                 |       |        |
| <i>Change color</i>                                 |       |        |
| <i>Password Modification</i>                        |       |        |
| <i>Managing Users</i>                               |       |        |
| <i>Exit Software</i>                                |       |        |
| <i>Manual Calibration of the Lasers</i>             |       |        |
| <i>Positioning Smart Phantom RTH</i>                |       |        |
| <i>Automatic Calibration with Smart Phantom RTH</i> |       |        |

**Training Performed by:**

| Name | Signature | Date |
|------|-----------|------|
|      |           |      |

**List of Participants:**  
*(please fill in completely to get training certificate)*

| Name | Email | Signature |
|------|-------|-----------|
|      |       |           |
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## Annex: Test conditions and acceptance criteria

| #  | Specification   | Acceptance criteria | Test condition / <i>Comment</i>  |
|----|---|---------------------|--|
| #1 | Laser Line Length   | > 1,2 m             | Along the corresponding IEC 61217 axis   |
| #2 | Laser Line Nominal Width  | < 1,0 mm            | Measured at isocenter.<br><i>This is not the minimum width of the laser line, not necessarily located at the isocenter. Outside of the isocenter, the laser line width may be larger than the acceptance criteria.</i>   |
| #3 | Laser Plane Distance to the isocenter at calibration position   | < 0,2mm             | Measured on the same day after calibrating the laser.<br><i>Due to mechanical stress relaxation, the lasers may move significantly during a few weeks after installation.</i>  |
| #4 | Laser Plane Distance to the corresponding IEC61217 plane within a 500mm radius sphere centered at isocenter | < 0.5mm             | Measured at calibration position.<br><i>When several lasers light the same plane, they may appear separated by up to 1mm at the limits of the operating sphere. Further away, the separation will increase with distance – at 3m from the isocenter, up to 3 mm.</i> |
| #5 | Travel error (HIT mbile lasers only)  | < 0,2 mm            | Measured on the same day after an axis calibration of the laser, along the corresponding IEC 61217 axis, in the full range of the HIT device.  |