



Profometer

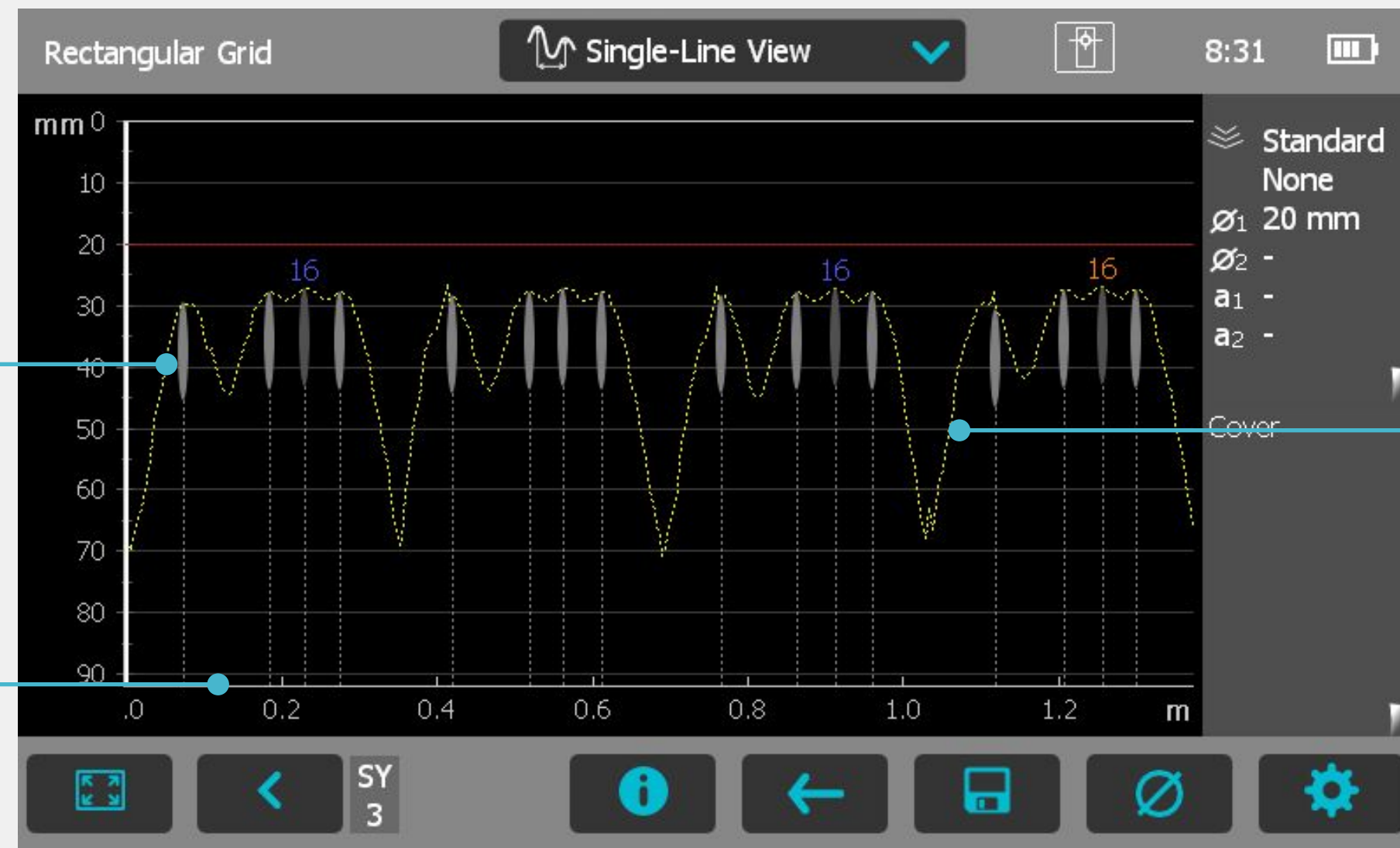
Fast and accurate Rebar Cover, Diameter Assessment

By Yichang

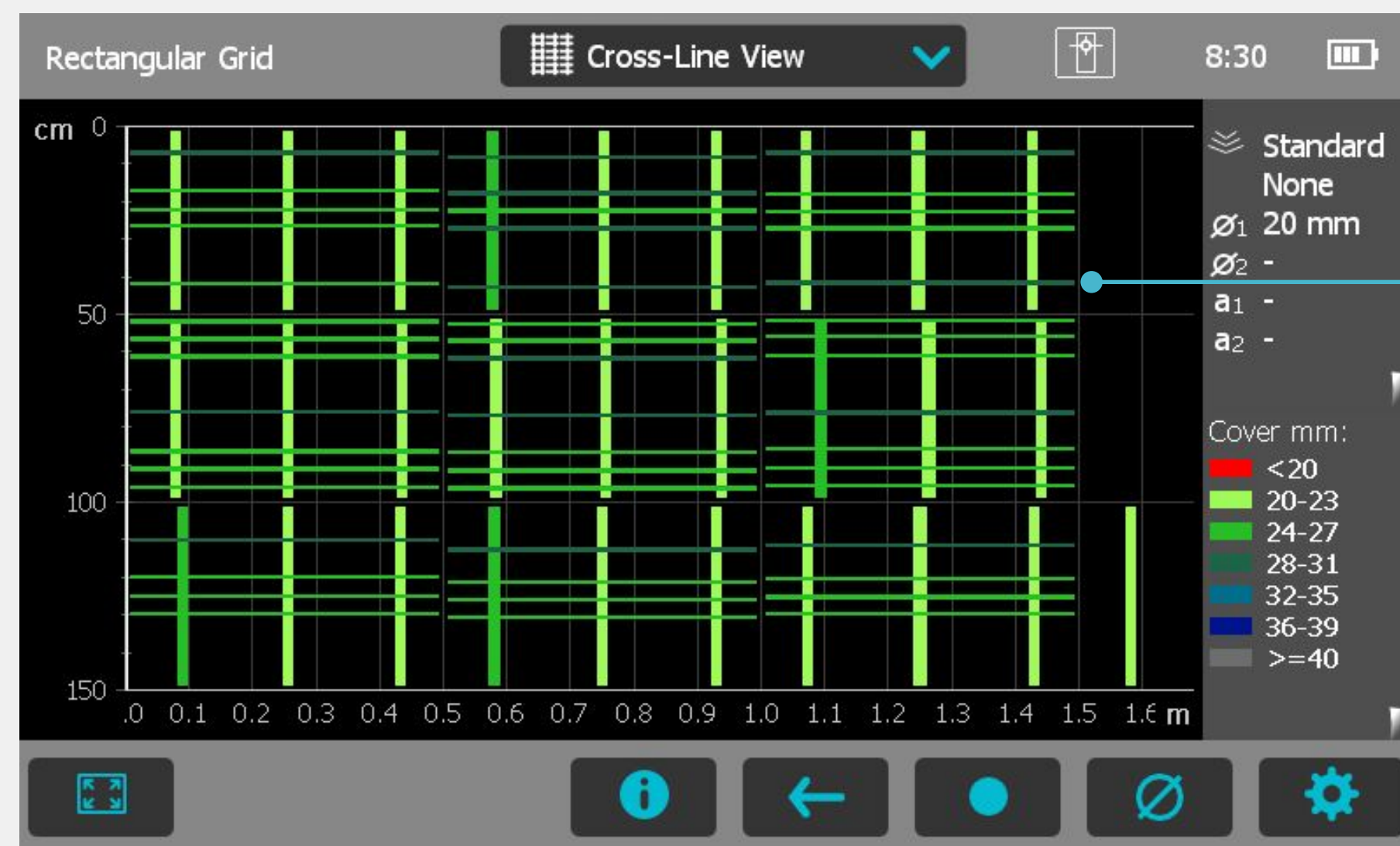


Problem with existing UI

Crucial information (cover thickness, rebar spacing) takes a lot of work to read.

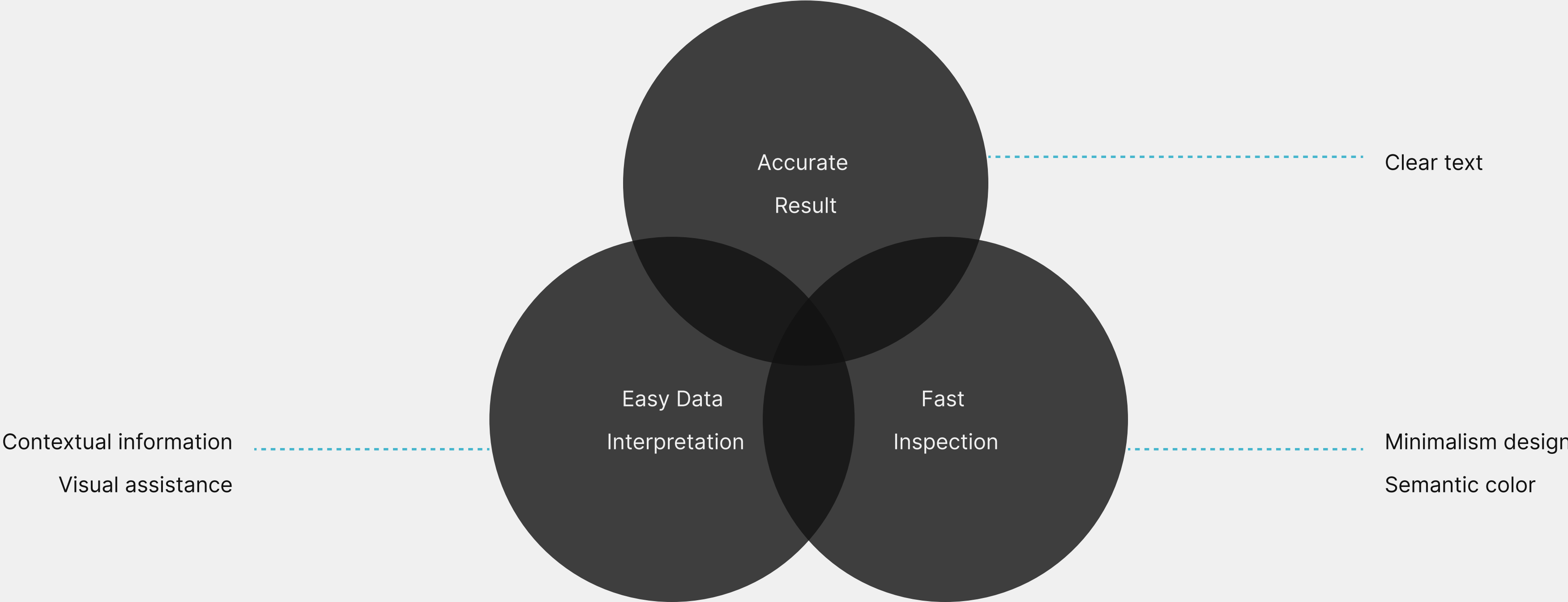


Information lacks context and is only for sophisticated analytics.



Second-layer rebars are too subtle
The thinner liners are misleading.

User Needs

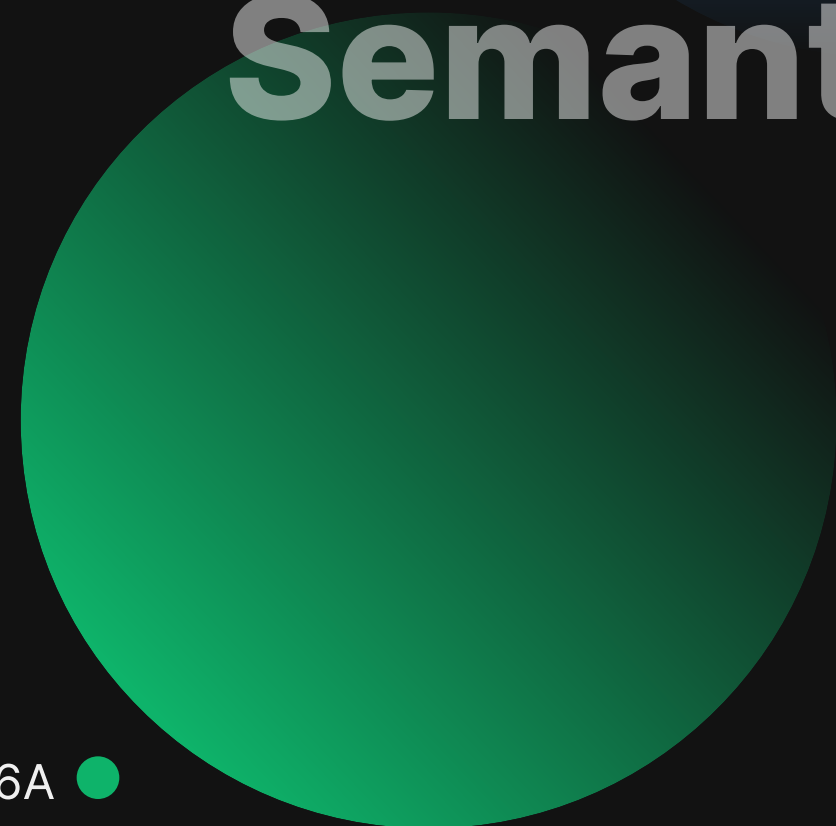


Semantic Colors

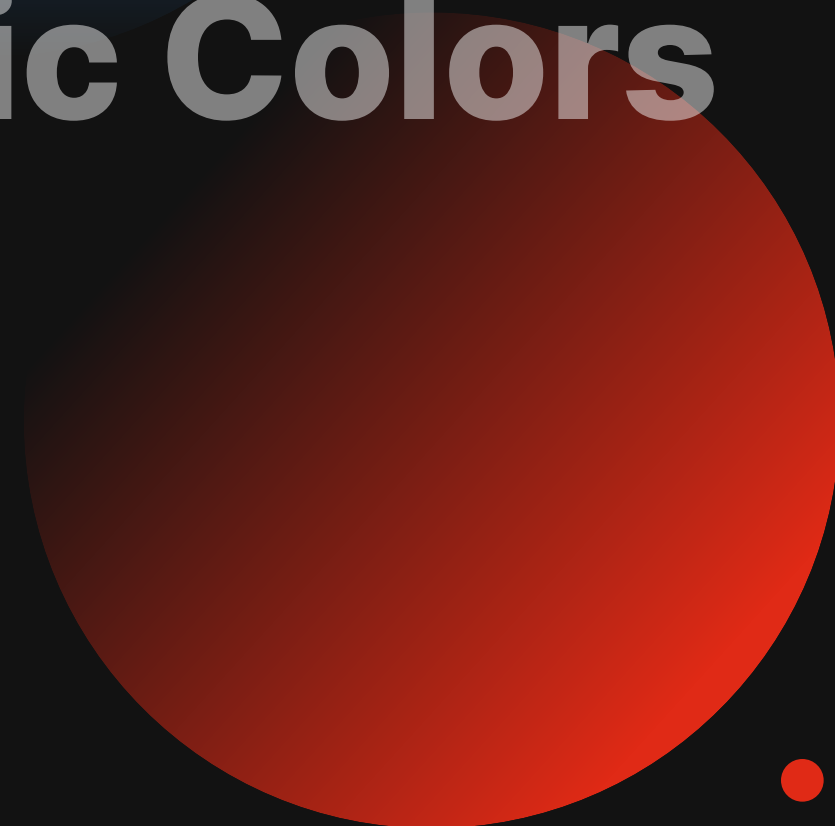
● #3196F5



● #0EB36A



● #E02A16



Aa

SF Pro Text

Medium Subheadings

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm
Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz
1234567890 ,.?!@'\$\$%&#

Regular Body

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm
Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz
1234567890 ,.?!@'\$\$%&#

Icons



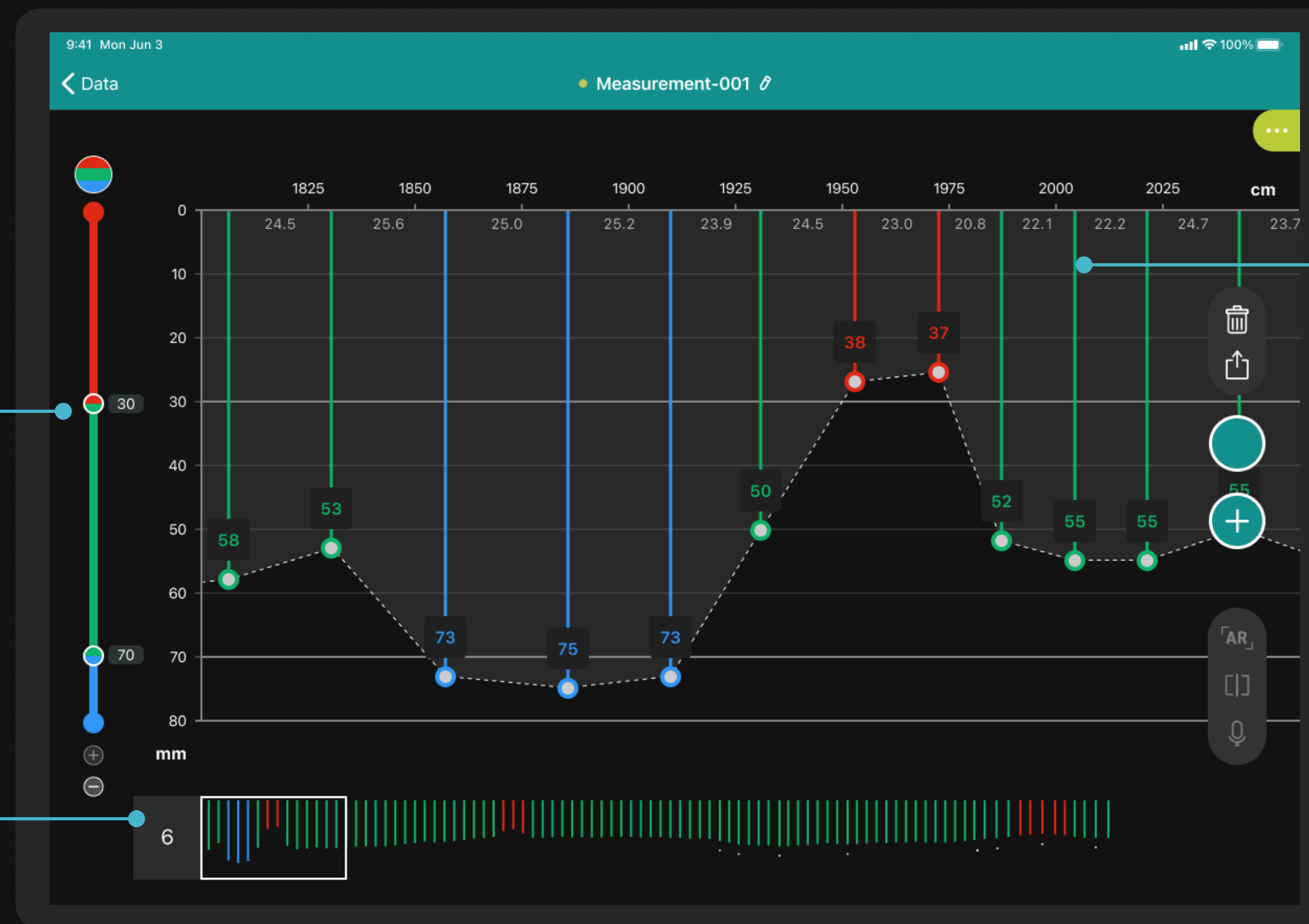
UI Components

Threshold Slider

Users can easily set the critical values by dragging the circle controllers or long press to input the exact number.

Line Number & Snapshot

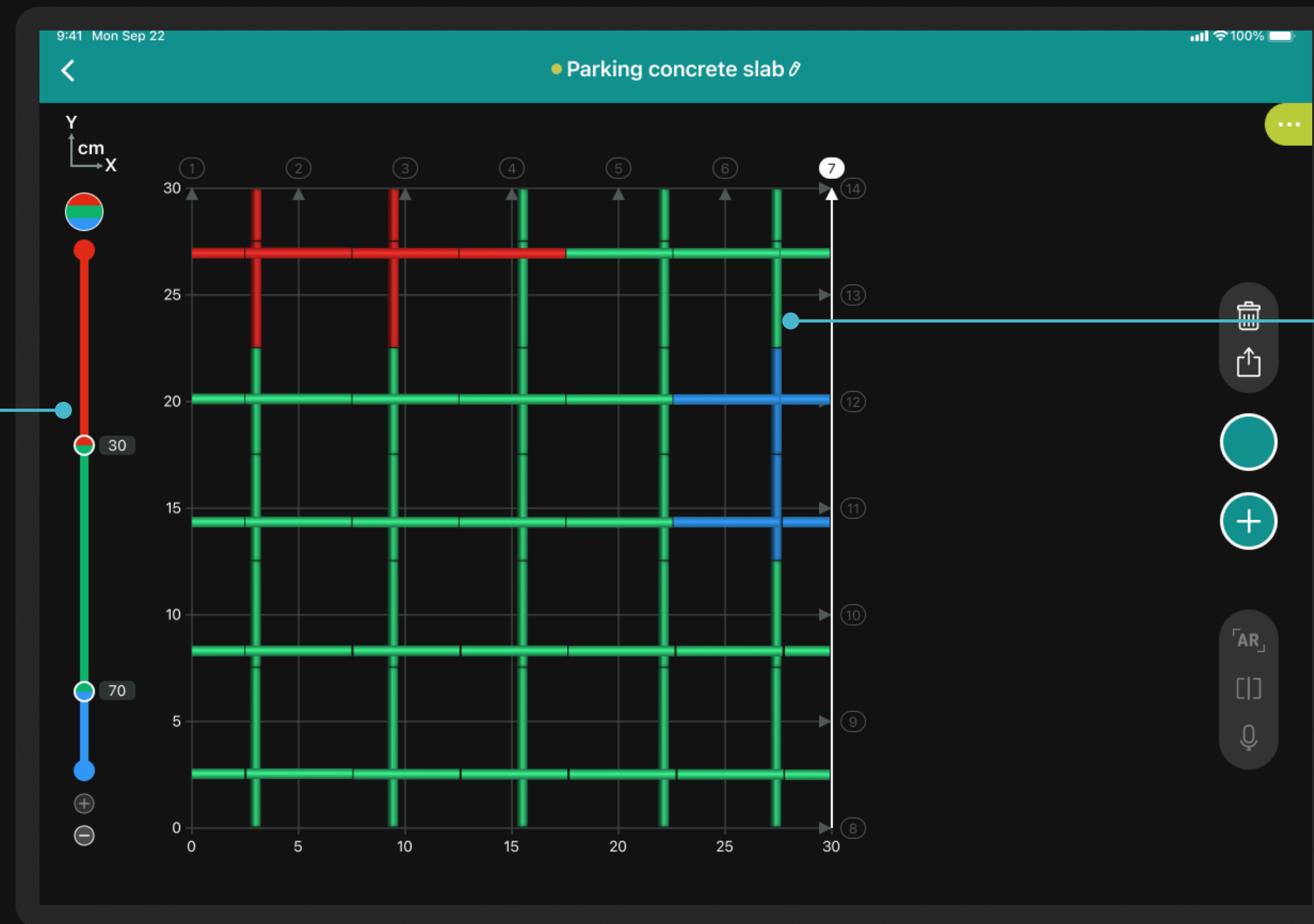
An overview of the entire line scan. The white box highlights where the user is viewing.



Rebar cover indicator

A line is drawn from the surface to the rebar, and the number indicates the distance between them. The component is color-coded based on the critical values set by the user for fast evaluation.

UI Components



Threshold Slider

The same slider is used for area scan (top-down view)

Rebars with 3D effect

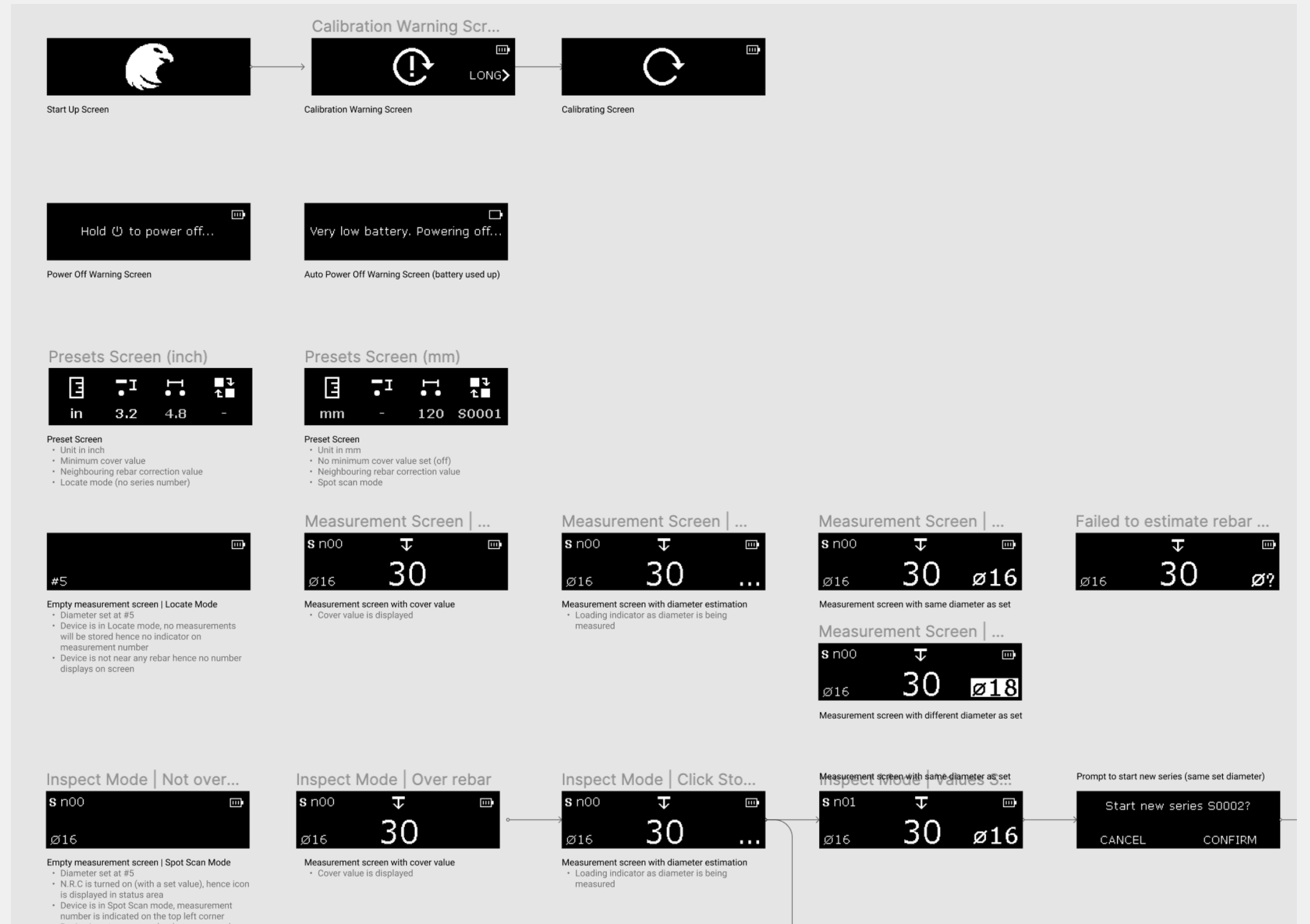
Gradient color is used to make the 3D effect and help users understand the rebar's structure.



Sound feedback was used to draw users' attention when there were important events, e.g., when a rebar was detected, when the scan reached the end of a line, when there was invalid data, etc.

Device Screens

A small screen was introduced to the device so that users could get quick feedback and operate the device without keep looking at the iPad app.



Thanks :)

Released on Oct 2022

<https://www.youtube.com/watch?v=WpmufC0fqYA>

